SERVICE MANUAL

AP-1E CHASSIS

MODEL

COMMANDER

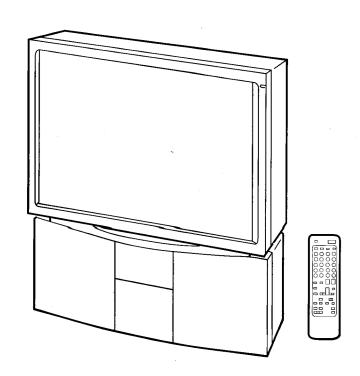
DEST.

CHASSIS NO.

KP-S4613/2 RM-842

AEF

SCC-H08A-A







ITEM MODEL	Television system	Stereo system	Channel coverage	Color system
AEP	B/G/H,D/K L, I	GERMAN/NICAM Stereo	PAL B/G/H: E02-E12, E20-E69 CABLE TV (1): S01-S41 CABLE TV (2): S01-S05, M01-10, U01-U10 ITALIA: A, B, C, D, E, F, G, H, H01, H2, H21-H69 SECAM D/K: R01-R12, R21-R60 SECAM L: F02-F10, F21-F69 PAL I: B21-B68	PAL,SECAM NTSC3.58, NTSC4.43 (VIDEO IN)

MODEL	AEP
Power consumption	188W

Specifications

Picture tube

Approx. 116 cm (46 inches)

Input/Output Terminals

[REAR]

- Inputs for audio and video signals

- inputs for RGB

- outputs of TV video and audio signals

→ 2/ 3 2 21-pin Euro connector

inputs for audio and video signals

inputs for S video

outputs for audio and video signals (selectable)

→ 4/+ 4 21-pin Euro connector

- inputs for audio and video signals

- inputs for S video

outputs for audio and video signals (monitor out)

€ 2, € 4 S video inputs

4 pin DIN

O Audio inputs (L, R) -phono jacks

→ S video output - 4 pin DIN

Audio outputs - phono jacks

Audio outputs (variable) - phono jacks

External speaker terminals: 2-pinDIN

[FRONT]

3 Video input-phono jack

→ Audio input-phono jacks

3 S video input 4-pin DIN

Ω Headphone jack: Stereo minijack

Sound output

2x30W (Music power)

Dimensions

(incl.speakers)

Approx. 1103.9 x 1289.1 x 511.8

mm

Weight (incl. speakers) Approx. 83 kg

Supplied accessories

RM-842 Remote Commander (1)

Other features

Digital comb filter (High resolution)

PIP (Picture-in picture)

NICAM FASTTEXT

[RM-842]

Remote control system infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

Dimentions

Approx. 65 x 222 x 21 mm (w/h/d)

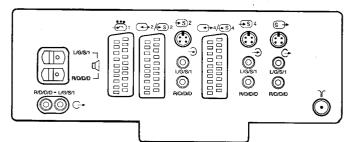
Weight

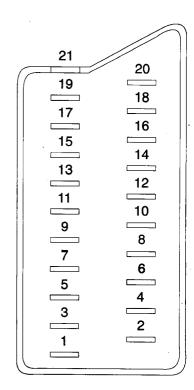
Approx. 157g (Not including Batteries)

Design and specifications are subject to change without notice.

Model name	
	KP-S4613/2
Item	
Pal Comb	ON
PiP	ON
RGB Priority	ON
Woofer box	OFF
NICAM	ON
Scart 1	ON
Scart 2	ON
Front in (3)	ON
Scart 4	ON
Dyn. Convergence	OFF
Projector	ON
AXB in 16:9 mode	ON
Norm B/G	ON
Norm I	ON
Norm D/K	ON
Norm AUS	OFF
Norm L	ON
Norm SAT	OFF
Norm M	OFF
Language Preset	AEP

21 pin connector (→Ö1 →2 / →4)





Pin No	11	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	0	0	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms*
3	0	0	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms*
7	0	•	Blue input	0.7V±3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal:0.7V±3dB. 75ohms, positive
12	0	0	Open	
13	0	0	Ground(red)	
14	0	0	Ground (blanking)	
15	0		Red input	0.7V±3dB, 75ohms, positive
Ī	_	0	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
20	0		Video input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
	_	0	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
21	0	0	Common ground (plug, shield)	

4 pin connector (-S)

Pin No	Signal	Signal level
1	Ground (audio)	
2	Ground (blue)	
- 3	Y (S signal) input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
4	C (S signal) input	0.3V±3dB, 75ohms, positive

TABLE OF CONTENTS

<u>Se</u>	<u>ction</u>	<u>Title</u>	<u>Page</u>	Sec	<u>ction</u>	<u>Titl</u>	<u>Page</u>
1.	GEN	IERAL		5.	DIA	AGRAMS	
		erview			5-1.	Block Diagrams (1)	41
	Ste	p 1 Preparation	7			Block Diagrams (2)	43
	Ste	p 2 Adjusting Colour Registration	7			Block Diagrams (3)	45
	Ste	p 3 Tuning in to TV stations	8			Block Diagrams (4)	49
	Ad	ditional Presetting Functions	9			Block Diagrams (5)	
	Wa	atching the TV	10			Block Diagrams (6)	54
		justing and Setting the TV using the Menu			5-2.	Circuit Boards Location	55
		P (Picture in Picture)			5-3.		
		letext				*H1 Board	
	Co	nnecting and Operating Optional Equipment	15			*H2 Board	56
	Tro	oubleshooting	16			* H3 Board	57
						*J Board	59
2.	DISA	ASSEMBLY				*M2 Board	63
	2-1.	H2 Board Removal	17			* A Board	
,	2-2.	D Board Removal	17			*D Board	
	2-3.	H1 and H3 Boards Removal	18			*ZR Board	
	2-4.	Back Cover Removal				*ZG Board	
	2-5.	Main Chassis Assy Removal	19			*ZB Board	
	2-6.	Service Position				*E2 Board	
	2-7.	J Bracket and J Board Removal				*B Board	
	2-8.	B Board Removal				*A1 Board	
	2-9.	M2, VM and A1 Board Removal				*N Board	
		Extension Board				*VM Board	
		N Bracket Removal				*DS Board	
		G Board Removal				*G Board	
		High-Voltage Cable Installation and Removal				*Pl Board	
		Chassis Assy Removal				*CR Board	
		Picture Tube Removal				*CG Board	
	2-13.	Tieture Tube Removal	24				
2	SET	-UP ADJUSTMENTS				*CB Board	
J.	3-1.		25		<i>5</i> 1	* IFH-389FX Board	
	3-1. 3-2.	Focus Lens Adjustments			5-4.	Semiconductors	106
		Deflection Yoke Position Adjustments		6	EVE	DI ODED VIEWS	
	3-3.	2-Pole magnet Adjustment		ъ.		PLODED VIEWS	
	3-4.	4-Pole Magnet Adjustment	26		6-1.		
	3-5.	De-Focus Adjustment (Blue)	26		6-2.		
	3-6.	Green Picture Adjustment	26		6-3.		
	3-7.	Green and Red Registration Adjustment			6-4.	Picture Tube	112
	3-8.	Green and Blue Registraiton Adjustment		_			
	3-9.	Registration Adjustments		7.	ELE	ECTRICAL PARTRS LIST	. 113
	3-10.	White Balance Adjustments	31				
4.	CIRC	CUIT ADJUSTMENTS					
	4-1.	Electrical Adjustments	33				
	4-2.	G Board Adjustments	37				
	4-3.	IF Adjsutment					
	4-4.	N Board Adjustments	37				
	4-5.	Test Mode 2:					
	4-6.	Error Message	39				
	4-7.	Error II C Bus Diagnosis System	39				
		- ·					

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

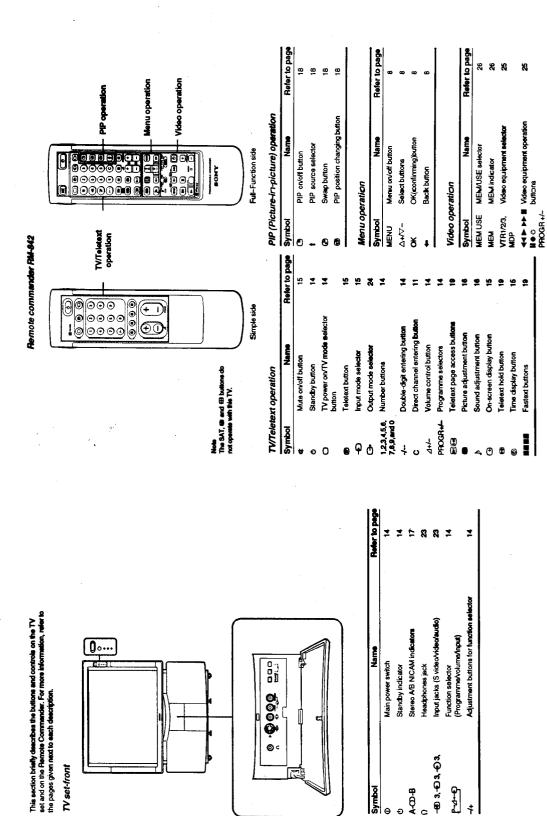
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK / ON THE
SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS
LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE
COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS
APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

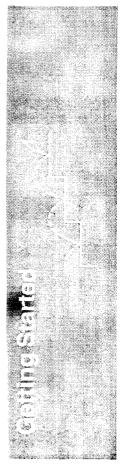




RESET button

RESET

A-0-B



Step 1 Preparation



When you've taken everything out of the carton, check that you have these items:



Insert the batteries into the Remote Commander

W



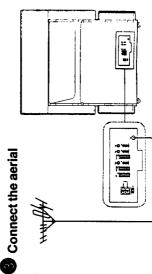




Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 2.

Check the correct polarities.





Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the T socket at the rear of the TV.

Step 2 Adjusting Colour Registration (Convergence)

Once you have set up the TV, you can choose the language of the menu. Then you should converge the three colour layers (red, green, and blue).

- Before you begin
- Check that the Full-Function side of the Remote Commander is visible. Locate Menu operation buttons on the Remote commander. They are shaded in the illustration at the left.

Choose a language

Depress © on the TV.
The TV will switch on, if the standby indicator on the TV is it, press
O or a number button on the Remote Commander.
Press MENU.
The LANGUAGE menu appears. (See Fig. 1) MENU

P English Partuguda Doublesh Sucess Français Secreta Historia Elemina Epphili Türge Nederlande Nederlande

- Select the language you want with Δ + or ∇ and press OK.

⑧

Display the Menu

The main menu appears. (See Fig. 2) Press the - button.

Select DE and press OK

① Converge the red, green, and blue

lines

Select "Convergence" with Δ + or ∇ - and press OK. The convergence menu appears. (See Fig. 3) Select "the line" you want to adjust with Δ + or ∇ -. Key to line adjustment symbols:

l (red vertical – left/right adjustment)

 (blue horizontal – up/down adjustment) l (blue vertical – left/right adjustment) Press OK.

> Note on the DEMO function you choose DEMO

The line to adjust is selected. Press $\Delta+\sigma \nabla - to$ converge the selected line with the centre green line and press OK.

can see a sequential demonstration of the menu functions. Press MENU to stop the function.

Press ∇~ Press ∆+

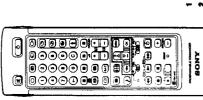
To move down (horizontal line) To move left (vertical line) To move up (horizontal line) To move right (vertical line)

Repeat steps 2-4 to adjust the other lines, until all the lines have overlapped to form a white cross. (See Fig. 4.)

Press MENU to return to TV picture.

Mixture of Primary

Step 3 Tuning in to TV Stations



The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources. You can preset the channels (up to 100 channels) by choosing either the automatic or manual method.





Preset channels automatically

- Press MENU to display the main menu
- Select "Preset" with $\triangle +$ or $\nabla -$ and press OK.
- The PRESET menu appears. (See Fig. 5.)
- Select "Auto Programme" with △+ or ▽- and press OK. The AUTO PROGRAMME menu appears. (See Fig. 6.)

To go back to the mair

8

Coop pressing ←.

Press OK. Select if necessary the TV broadcast system with $\triangle + \sigma r$ ∇-and press ON. (B/G for western European countries, D/K for eastern European countries, D/K for eastern European countries, I or fanze and flor the United Kingdom). The first element of the *PROG* number will be displayed in red on a black background.

To stop automatic channel presetting Press ← on the Remote

- Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with \triangle + or ∇ or the number buttons (e.g. For "17, select "1) and press OK.
- The second element of "PROG" will be displayed in red on a black background.
 - Select the second element of the double-digit number with $\triangle +$ or $\nabla -$ or the number buttons (e.g. For "17", select "7") and press OK (See Fig. 7.)

are stored on which programme positions. For details, see "Using the Programme Table" on page 17.

automatically, you can check which channels

After presetting the

- Using \triangle + or ∇ -, select C (to start presetting from the normal channels) or S (to start presetting from the cable channels) and press QK.
- he automatic channel presetting starts.
- For customers in the U.K., channels are automatically stored as When presetting is finished, the preset menu reappears. (See Fig. 8.) All available channels are now stored on successive number buttons. You can sort the programme positions to have them appear on screen in the order you like. For detailing, see "Soring the Programme Positions" on page 11.
- Programme position 1 BBC1.
- Programme position 2 BBC2.
 - rogramme position 3 TV.
- Programme position 4 CH4 or S4C.
- f you want to change to another broadcasting system, repost 3-6
 - Press MENU to return to TV picture.

March Programme Survey March Programme Survey Surve
--

Beled! The and press Of ŧä 17

Salact One and plate OK Auto Programmo Proced Menual Programmo Proced Programmo Borting Perentel Look

Select 'Manual Programme Preset' with \triangle + or ∇ – and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Using \triangle + or ∇ -, select the programme position (number button) to which you want to preset a channel, and press OK. Select "Preset" with \triangle + or ∇ - and press OK. The PRESET menu appears. (See Fig. 9.)

Fig. 10.)

If you have made a mistake Prass — to go back to the previous position.

To return to the main Keep pressing ←.

if you want to preset channels one by one. You may also effocate programme numbers to various video input

are only a few channels in your area to preset or

- ------4558888888

Belent Da and press OK Auto Pragramme Marval Programme Pressi Programme Serting Parental Lock

Preset channels manually

Press MENU to display the main menu.

if necessary, the TV broadcast system (B/G for western an countries, D/K for eastern European countries, L for and for the United Kingdom) or a video input source (EXT) ϵ or ∇ —.
ress OK. The CH position will be displayed in red on a black bund. (See Fig. 11.)
A ce 77 - select C (to present a requise channel) S (to

Solect DO and press DK

Fig. 10

- The first element of the "CH" number will be displayed in red on a Using \triangle + or ∇ -, select C (to preset a regular channell). S (to preset a cable channel), or F (to tune in by frequency) and press black background.
- If you have selected EXT in step 4, select the video input source with $\Delta_{\rm c} = \sqrt{8 + 6} + 6 = 1$. There are two ways to preset channels. If you know the channel number, go to step 7-Manual.
- If you don't know the channel number, go to step "8-Search"
- The second element of the "CH" number will be displayed in red on Select the first element of the "CH" number with △+ ▽- or the number buttons and press OK.

To tune in a channel by frequency Aher selecting F in step 6, exiter three digits using the number buttons.

FQ 13

- Select the second element of the number with $\triangle + \nabla -$ or the a black background. number buttons.
- The "SEARCH" position is highlighted and the selected channel is The selected number appears. (See Fig. 13.) Press OK
- Press OK until the cursor appears by the next programme position now stored.(See Fig. 14.)
 - Repeat steps 3 to 7 to preset other channels.
- Press OK repeatedly until the colour of the SEARCH position Start searching for the channel with $\triangle + (up)$ or $\nabla - (dorwn)$.
- Press OK if you want to store this channel. If not, press $\triangle +$ or ∇ to continue channel searching. is found, it stops. (See Fig. 16.)

The CH position changes colour. (See Fig. 15.)
The CH number starts counting up or downwards. Wh en a channel

- Press OK until the cursor appears by the next programme position.
 - Repeat steps 3 to 7 to preset other channels.
 - Press MENU to return to TV picture.

Additional Presetting Functions

This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

- Before you begin
- Check that the Full Function side of the Remote Commander is visible.
 - Locate the Menu operation buttons.

Sorting Programme Positions

PROGRAMME SORTING

With this function, you can exchange the programme positions to a

- preferable order.
- Press MENU to display the main menu.
- Select "Preset" with \triangle + or ∇ and press OK. The PRESET menu appears.
- Select "Programme Sorting" with \triangle + or ∇ and press OK. The PROGRAMME SORTING menu appears (See Fig 17.)
- Using riangle + or riangle , select the programme position you want to move The colour of the selected position changes. (See Fig. 18.) to another and press OK.
- to move the channel of the programme position selected in step 4 and press CK. Now the two programme positions have been sorted. (See Fig. 19.) Using \triangle + or abla-, select the programme position to which you wan
- Repeat steps 4 and 5 to sort other programme positions. Press MENU to return to TV picture.

111111111

Tuning in to a Channel **Temporarily**

BONY

You can tune in to a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander. Press C on the Remote Commander. For cable channels, press C The indication "C" ("S" for cable channels) appears on the screen. (See Fig. 20.)

For programme positions beyond 15 The display scrolls

Enter the double-digit channel number using the number buttons (e.g. for channel 4, inst press 0, then 4).
The channel 4,ppears.
However, the channel will not be stored.

Press - to go back to the previous position f you have made a

To go back to main menu Keep pressing ⊷.

8

MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR #-buttons. However, the skipped programmes may still be called up when you use the number

- Press MENU to display the main menu.
- Select "Preset" with \triangle + or ∇ and press OK. The PRESET menu appears.
- Select 'Manual Programme Presel' with \triangle + or ∇ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See
- Using $\triangle +$ or $\nabla -$, select the programme position which you want to

[[[[[[[[[[]]]]]]]]]

* -----5 8688363388

Safe Ef DO und prote Or

742

- skip and press OK. The "SYS" position changes colour.
- Press \triangle + or ∇ until "---" appears in the SYSTEM position. (See When you select programmes using the PROGR+/- fouttons, the programme position will be skipped. Press OK. (See Fig.23.) Fig. 22.)

Press ← to go back to f you have made a he previous position To go back to main menu Keep pressing ←.

Mave PRS to PR

F 8 C15 BBC1

屐 18 Fig. 17

3 | | | | | | | | |

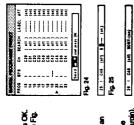
85111188

- Repeat steps 4 to 6 to skip other programme positions.
- Press MENU to return to TV picture.

Captioning a Station Name

Programme names are usually automatically taken from Telefeatt if available. You can also harne's channel or an riput video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBCT). Using this function, you can easily identify which channel or video source you are wealchling. MANUAL PROGRAMME PRESET

- Press MENU to display the main menu.
- Select "Preset" with $\triangle +$ or $\nabla -$ and press OK. The PRESET menu appears.
- Select 'Manual Programme Preset' with \triangle + or ∇ and press ${\sf OK}$. The MANUAL PROGRAMME PRESET menu appears. (See Fig.
- Using \triangle + or ∇ -, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- The next element will be highlighted. Select other characters in the same way. If you want to leave an Select a letter or number with $\triangle +$ or $\nabla -$ and press OK. element blank, select -- and press OK. (See Fig. 25.)
- After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 26.)
- Repeat steps 5 and 6 to caption names for other channels.
 - Press MENU to return to TV picture.



2

=

Operating Instruct

Watching the TV

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

Using $\Delta + \sigma V \sim$, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour. Select "Manual Program Preset" with $\Delta+$ or $\nabla-$ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See

	8	SDAY: (3)	H) SORY (-1)
3333333	100 Per p	**	#55 #55
*********	Fig. 27	- 25 26	R ::

Select "Preset" with $\Delta + \text{ or } \nabla - \text{ and press OK}$.

The PRESET menu appears.

Fig. 27.)

Press MENU to display the main menu.

Manual Fine-Tuning

MANUAL PROGRAMME PRESET

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Switching off temporarily

000

(+ 1) $\oplus \mathbb{O}$

0 ...

The TV enters standby mode and the standby indicator on the front Press to on the Remote Commander of the TV lights up.

To switch on again

Press ○, PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely Depress @ on the TV.

Selecting TV Programmes

Press PROGR +/- or press the number buttons. To select a double-digit number

Press 4-, then the numbers. For example, if you want to choose 23, press 4-, 2, and 3

666

Adjusting the Volume Press 2 +/-.

If no picture appears when you when you depress 0 on the TV and if the stands if the TV is in standby incidentor on the TV is in standby mode.

Press O or one of the mumber of the mumber follows to a with it and with it and with it and with it and in the switch it and in the switch

Operating the TV Using the Buttons on the TV

With the -/+ buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

number, Δ (for volume), or -E) (for video input picture) appears. Press the P-4+- button repeatedly until the programme Then adjust with the -/+ buttons.

Press the J+ buttons to switch on the TV from the steindby mode. Press √+ simultaneously to reset picture and sound controls to the factory preset level (RESET function).

F 25

The cursor appears beside the next programme position (at the left margin). (See Fig. 29.) Now the fine-tuned level is stored.

Repeat steps 4 to 6 to fine-tune other channels.

Press MENU to return to TV picture.

Fine-tune the channel with $\Delta+$ or $\nabla-$ so that you get the best TV reception. As you press the cursor buttons, the frequency changes

To reactivate AFT (automatic fine tuning Repeat from the beginning and select OVF in step 5.

from - 15 to + 15. (See Fig. 28.)

After fine tuning, press OK.

Press MENU to display the main menu.

The PRESET menu appears.

The CH and LABEL change colour and the TV picture **deappears** indicating that this programme is now blocked. (See Fig. 31.)

PR08

Fig. 30

PROG CH LABEL F F C26 88C2 2 C42 88C3 3 C26 C4

Press MENU to return to TV picture.

On the PARENTAL LOCK menu, select the programme position you want to unblock with $\Delta + \text{ or } \nabla -$.

The CH and LABEL change colour to normal colour and the TV picture appears indicating that the blocking has been cancelled:

ARESTAL LOCK

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable

Select "Preset" with $\Delta + \text{ or } \nabla - \text{ and Press OK.}$

Using $\Delta + \text{ or } \nabla -$, select the programme position you want to block Select "Parental Lock" with Δ + or ∇ - and press OK. The PARENTAL LOCK menu appears. (See Fig. 30.)

The message *LOCKED" appears on the blank TV screen.

If you try to select a programme that has been blocked

Repeat step 4 to block other programme positions.

Cancelling blocking

2

5

Adjusting and Setting the TV Using the Menu

For details of the telestert operation, refer to page 19.





To make the Programme Table despon Press MENU.

Watching Teletext or Video Input

Watching teletext

- Press (to view the teletext.
- For teletext operation, enter a 3-digit page number with the number buttons to select a page. For fastext operation, press one of the coloured buttons. Crop tho operations, press & P(PAGE+) for the next page or GPAGE-) for the preceding page.

 To go back to the normal TV picture, press O.

Watching a video input picture

- Press E repeatedly until the desired video input appears.
 - To go back to the normal TV picture, press \bigcirc .

More Convenient Functions

Use the Full-Function side of the Remote Commander

- Displaying the on screen indications
- Press © twice to have the programme number and label stay on screen. Press twice again to make the indications disappear. Press @ once to display all the indications. They will disappear after a few seconds.

Muting the sound

Press 🚓

To resume normal sound, press 4≮ again.

Displaying the time

BONY

Press ©. This function is available only when teletext is broadcast. To make the time display disappear, press © again.

Displaying of the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See. Fig. 32.)

Selecting of TV programmes Press PROGR 4/- or select the desired programme position using $\Delta+$ or $\nabla-$, and press OK.



NTSC colour systems and RESOLUTION does not work for SECAM colour systems.

IUE is only available for

Note on LINE OUT
The audio level and the dust sound mode output from the Θ jack on the

Nearbhone VOLUME and DUAL SOUND

Adjusting the Picture and Sound

PICTURE CONTROL SOUND CONTROL

Although the picture and sound are adjusted at the factory, you can adjust them to sail your own tasse in addition, you can set the resolution to obtain a higher quality picture. You can also select dual sound (blingual) programmes when available or adjust the sound (blingual) programmes when available or adjust the sound (blingual) programmes when available or adjust the sound for listening with the headphones, or individually adjust and store the volume level of each channel (volume offset).

Press MENU and select "Picture Control" or "Sound Control", then Press (for picture) or (for sound) on the remote Commander press OK.
The PICTURE CONTROL or SOUND CONTROL menu appears
(See Fig. 33 or Fig. 34.) 5

Select DLD and press OK

Using $\Delta +$ or $\nabla -$, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 35.)

The cursor appears beside the next item (at the left margin). (See Fig. 36.)

For the effect of each control, see the table below. Adjust the setting with $\Delta + \text{ or } \nabla - \text{ and press OK}$.

Repeat steps 2 and 3 to adjust other items. Press MENU to return to TV picture.

MON



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70
8
each
tofe
ffeci
W.

	.0ss — — More	Darker — - Brighter	Less — + — More	Greenish —— Heddish	Softer	Resets picture to the factory preset levels.	(high) Obtain a higher picture quali	
	9507	Darker —	Less	Greenish -	Softer	Resets pic	(normal)	
יייייייייייייייייייייייייייייייייייייי	Contrast	Brightness	Colour	Hue	Sharpness	Reset	Resolution	

To go back to the mate

Geep pressing 4...

Press - to go back to the previous position. f you have made a nistake

SOUND CONTROL	Effect
Treble	Less More
Bass	Less —— More
Balance	More left — — More right
Reset	Resets sound to the factory preset levels.
Loudness	off: Normal on: When listening to low volume sound.
Space	off: Normal on: Obtain acoustic sound effect.
Dual Sound	At left channel B: might channel Stereo mono
	The selected mode of the A-CD-B Indicator on the TV lights up
	(For NICAM broadcasts, see next page)
Volume offset	(-7) Less 0 (+7) More
Headphones:	
O Volume	Less — More
O Dual Sound	A: left channel B: right channel Stereo mono

When watching a video input picture You can select DUAL. SOUND to change the

-11-

Selecting Nicam Broadcasts*

This Sony TV has been designed to select stenso Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-CD-8 indicators, on the TV will switch off.

Nican programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 16.

Service Being Broadcast	Action	4	Indication of the TV	>
		Stereo Nicam	Mono	
Stereo	Press Δ+ or ∇−	¥ <-8	o ≺ -8	
		* 	0	
Press ∆+or ∇–ag	Press Δ + or ∇ – again to return to stereo Nicam (Mono 2-Channel)	Nicem (Mono 2-	Channel)	
		Channel A Nicam	Channel A Nicam Channel B Nicam	Mono
Bilingue	Press	* √ -6	0	o ∢ -€
	Δ+α-Ω-	O }-as	₩ 3-an	O

Press △+ or ▽- again to return to channel A Nicam

Depending on availability of service.

Using the Programme Table

programme position. You can also select programmes using this table. On this table, you can see which channel is preset to which

Select "Programme Table" with $\Delta+$ or $\nabla-$ and press OK. The PROGRAMME TABLE menu appears. (See Fig. 37.) Press MENU to display the main menu.

Select the programme number with $\Delta +$ or $\nabla -$ and press OK. The selected programme appears.

To scroll to higher programme numbers, press $\nabla \sim$ Press MENU to return to TV picture.

Using the Sleep Timer

Partition (of)
Select INS and pres OK

F 38

Fig. 37

You can select a time period after which the TV automatically switches into standby mode.

Press MENU to display the main menu.

Select 'Timer' with \triangle + or ∇ - and press OK. The TIMER menu appears. (See Fig. 38.)

Select the time period with $\triangle+$ or $\nabla-$. The time period (in minutes) changes as follows: The time period option changes colour, Press OK.

To switch off the timer Select "OFF" in step 3.

To check the remaining time Press ©.

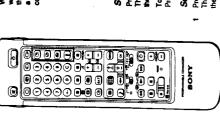
The cursor moves back to the left margin and the timer starts After selecting the time period, press OK. 196

 $10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 60 \rightarrow 70 \rightarrow 80 \rightarrow 90$

One minute before the TV switches into standby mode, a message is displayed on the screen.

Press MENU to return to TV picture.

PIP (Picture In Picture)



With this function you can display a TPIP acreen" (small picture) within the main IV picture, in this way you can weath or monitor the video output from any connected equipment (for example from a VTRI) while watching TV or vice versa. For information about connection of other equipment, refer to page 23.



Switching PIP on and off

Press ©. The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

To Switch PIP off Press 🕒 again.

Selecting a PIP source

The symbol twill be displayed at the bottom, left-hand corner of the screen. Press t.

Press - © repeatedly until the desired PIP source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4).

if no video source has been connected, the PIP picture will be

Note RGB input source cannot be displayed in PIP.

5050505333

Swapping screens

Press (3). The main screen will switch the picture with the PIP screen.

⋖ œ

If a TV programme is on the PIP screen and a video source on

the main picture, and you want to change channels, first press that of the high population of PROCB +/-.

Swapping screens takes about 2 seconds after pressing (2).

After swapping screens if he colour systems of the main and PIP pictures are different, the PIP picture first appears in black. and white and then in colour.

Changing the position of the PIP

Press @ repeatedly to change the position of the PIIP screen with in the main screen. There are four different positions available.

Displaying of PIP within Teletext

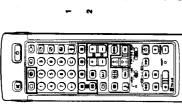
Press (while teletext is switched on.

The PIP screen will be displayed on the right side of the TV screen, the reduced teletext page will be displayed on the left side.

Press © again to make the PIP screen disappear.

2

Teletext



Teletaxt errors may occur if the broadcasting signals are weak.

With the simple side of

You can switch interest on and off, operate Fastext, and directly select page numbers.

Press (2) to resume normal teletext reception. Fastaxt operation is only possible, if the TV station broadcasts Fastaxt signals.

TV stations broadcast an information service called Teletant via the TV channels. Teletext service allows you to receive various information pages such as wealther reports or news at any time you want. For advanced feelext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text evailable" is displayed on the information line at the top of the screen. Select the TV channel which carries the teletext broadcast you Press (2) to switch on teletext. want to watch.

To switch teletext off

Press ().

Selecting a teletext page With direct page selection

Use the number buttons to input the three digits of the chosen

page number. If you have made a mistake, type in any three dighs. Then re-enter the correct page number.

BONY

With page-catching

Select a teletext page with a page overview (e.g. index page).

Press CK. "Page catching" will be displayed on the information line. Using $\Delta + \sigma \, \nabla_{-}$ select the desired page and press CK. The required page number flashes. The requested page will appear in a lew seconds.

Press (2) to resume normal teletext operation

Accessing next or preceding page

The next or preceding page appears. Press @ (PAGE+) or @ (PAGE-).

Superimposing the teletext display on the TV

Press (8) once in teletext mode or twice in TV mode. programme

Press @ again to resume normal teletext reception.

Preventing a teletext page from being updated Press 68 (HOLD). The HOLD symbol "69" is displayed on the information line.

Using Fastext

When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the With Fastext you can access pages with one key stroke. Remote Commander

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after a few seconds.

Using the Teletext Menu

Press MENU. The menu will be superimposed on the teletext display. (See Fig. 39.)

USER PAGES/PRESET USER PAGES

The index will give you an overview of the contents of the teletext and the page numbers.

TELETERS RESIG

After having selected the function two succeeding teletext pages will be displayed next to each other on the TV screen. Accessing next or preceding page Press PROGR 4/-.

Out I fage Mees Out I fage Mees Out Out I fage Mees Out Out I fage Mees That I fage Mees Street Out Out Out Out Out

Page Catching
Press CK. Page Catching is now active on the left teletext page
(See also page 19).

BONY

Note Some of the features may not be available depending on the Teletext service.

For convenient reading of a teletaxt page, you can enlarge the elevant display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 41.)

Press ® to resume normal teletext reception.

TEXT CLEAR

After selecting the function, you can watch a TV programme while waiting for a telefext page to be captured (the symbol changes colour). (See Fig. 42.)

SUBTITLES

Your teletax service will inform you if a TV programme is subtitled.

After having selected the function the subtities will be displayed.

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

Using $\Delta+$ or $\nabla-,$ select the teletext function you want and press OK. (See Fig. 40.)

See page 22 for information about presetting and operating the user pages.

Ratesis Ludyings Preset Unit Pages Suite (DE) and pass OK

INDEX

DUAL PAGE MODE

While you select a page number of the left page using $\Delta+$ or $\nabla-$, the corresponding teletaxt page will be displayed on the right side of the TV screen. if you press OK again the right teletext page will appear on the left.

To cancel the function:

TOP/BOTTOM/FULL

Press Δ + for Top to enlarge the upper half. For Bott om keep pre saing ∇ -, to enlarge the lower half. Press OK for Full to resume the normal size.

Nop V Bottom OK Full Fig. 41

(II)

Press (E) to view the requested page.

Foto

Sometimes Pages contain concealed information, such as answers to a qut." The reveal option less you discides the answers information, After selecting the function, an information line Reveal on/off will be displayed. (See Fig. 43.) Using $\Delta +$ or $\nabla -$, select ON to reveal the information or OFF to

conceal it again.

Press ® to resume normal teletext reception.

TIME PAGE

Press OK to select "OFF" for the TIME PAGE setting to cancel

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

Press OK. An information window will be displayed at the bottom of the page. Using $\Delta+$ or $\nabla-$, select "ON" and press OK.

Time Page is not available in the U.K.

To select the desired page, enter three digits for the page number (e.g. 452) using the number buttons.

To select the desired time, enter four digits for the desired time (e.g., 1800) using the number buttons and press MENU. The selected time is displayed at the top in the left hand comer. At the requested time, the page will be desplayed. Use the number buttons to select a new page.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR 44— or the number buttons (e.g. enter 0002 for the second page of a sequence).

if hero broadcasting stations use the same Telesant You can preset one bank to 2 different programme positions.

Revest Plan Lat

There are 5 "banks" (A to E) for 5 teletext stations, **in each benk** you can store 6 preferred pages (P1 to P6).

Storing pages

Press (# Teletext is not already on) and MENU to show the

TELETEXT MENU display.

Select the desired bank with $\Delta + \alpha \nabla -$ and press Off. The cursor will go to the first position (p1) of the preferred pages. Input the three digits of your first preferred page with the number

The cursor will go to the second position.

Select "Preset User Pages" with $\Delta + \text{ or } \nabla - \text{ and press OK}$.

You can store up to 30 pages in the "teletext page benk system"

User Page Bank System

in this way you have quick access to the pages you watch frequently.

Select the desired bank with $\Delta + \text{ or } \nabla - (Banks \text{ A to } E \text{ are available})$ Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK Select the programme position on which you want to store the preset pages with Δ + or ∇ - and press OK. (See Fig. 44)

Select "Allocate Bank" with $\Delta + \text{ or } \nabla - \text{ and press OK}$.

without inserting any number.

Repeat steps 3 to 8 for the other 4 banks available

and press OK.

Displaying User Pages.

Select MENU.

A table of the stored preferred pages will be displayed. (See

Select "User Pages" with △+ or ▽ and press OK

Se lect the desired page with ∆+ or ∇ and press OK... The page will be displayed after some seconds.

P FAGE 301
PAGE 301
PAGE 300
PAGE 300
PAGE 300
PAGE 300
Select (A.S. and ports OK

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P3 to the

while you are in TV mode. Now the Page number of this telested page will appear in white at the top in the eff-handed comer of the TV screen. When the page number changes codour the page is available. Press the coloured button again to display the page. yellow one and P4 to the blue button.
To select the desired page press the respective coloured button

N

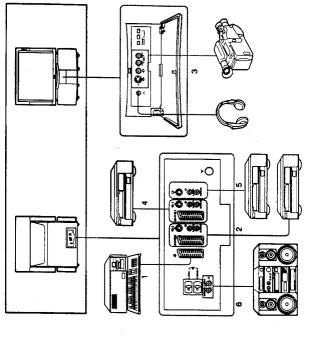
ĸ

To cancel the request Select SUBPAGE and press OK.

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as a VTR, video disc player, and stereo system.



programme postions so that you can select them with PROGR +/- or number buttons. For details, see Preset chernels manually on Selecting input with PROGR 4/- or number You can preset video input sources to the 28Qe 10.

The symbol of the selected input source will appear. (See Fig. 46.)

To go back to the normal TV picture

Press ().

Press - repeatedly to select the input source.

Selecting input

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output sign all using direct access buttons or the menu system.

Selecting input and output

Ģ

Audio/video input through the - 1 connector Input modes Sympol

To connect a VTR using the T terminal

Selecting the output **φ** φ - **4** e Q ၈ မှ Ģ **⊕**

Audio/S video input through the - (a) 3 (4-pin connector) and - (b) 3 connectors

Audio/video input through - 3 and - 3 on the front Audio/video input through the 🕒 4/ 🗝 4 connector Audio/S video input through the 2+4/-6 4 or -6 4 connector(4-pin connector)

Audio/S video input through the 🚭 2/ 🙉 2 or 📵 2 connector (4-pin

AudioVideo input through the ⊕+2/-® 2 connector

Audio/RGB input through the - 5 1 connector

You can also select the input mode using the P 2-4-5 and 4+ buttons on the TV. In this case, first select -D, and then press 4+ butto ns to select the input.

The symbol of the selected output source appears. (See Fig. 47.) The 3 2/4 2 connector outputs the source input from the Press (4 repeatedly to select the output. other connectors.

FOOR

φ

Output modes

⊕-2/ – € 2 connector outputs	AudioVideo signal from the 👵 1 connector	Audio/video signal from the G+2/ -® connector	Audio/S video signal from the (3-2/-(6) 2 or -(6) 2 connector (4 pin)	Audio/video signal from the - 3, - 3 connectors	Audio/S video signal from the -® 3, - 3 connectors	Audio/video signal from the 🕞 4/ 🗝 4 connector	Audio/S video signal from the 🕒 4/ 👵 4 or 🗝 4 connector (4 pin)	Audio/video signal from the "If serial terminal
Symbol	φ	5	2 (4)	φ̈́	<u>.</u>	φ	4	∲

Acceptable input signal Connect the serial culput of the VTR to the serial terminal if of the TV. We recommend that you turns in the video signal to programme number "V". For details see "Preset channels manually" on page 10. (driominance) signals, Separatory be varied suggests toward the form instruction with one smoother, and hereafter quality (especially turnsance). The TV is expend with 3 S Video ripod jacks fibrought witch these separated signals can be input directly. When connecting a monaural VTR Connect only the white - jack to both the TV and VTR. o signels may be arated into Y If the picture or the sound is distorted Move the VTR away from the TV. Wideo Input(Y/C nput) minese) and C

Normal audio/video and S video signal Normal audio/video and S video signal Normal audio/video and S video signal Normal audio/video and RGB signal No inputs No imputs

Video/audio displayed on TV screen (monitor out)

Video/audio from selected source Available output signal Video/audio from TV tuner

No outputs

S'video/audio signal displayed on TV screen

Audio signal (variable)

(monitor out)

Troubleshooting

Here are some simple solutions to some problems which may affect the picture and sound.

No picture (screen is dark), no sound the Profit of indicator is on, press O or a programma number on the Bernate Commander). • Check the serial connection. • Check the serial connection. • Turn the I'volf to three or four seconds and then turn it on again using ©. Poor or no picture (screen is dark), but sound is OK • Press ® to enter the PICTURE CONTROL menu and adjust the BRIGHT-NOW programma a RGB video source. • Press D repeatedly to select — Ö. • Press D • I'ff is displayed on the screen, press 4. No colour for colour programmes • Press ® to enter the PICTURE CONTROL menu and adjust the BRIGHT-NOW programmes • Press D • I'ff is displayed on the screen, press 4. No colour for colour programmes • The batteries are weak. Female Commander does not function • The batteries are weak.	Problem	Solution
), but sound is OK	No picture (screen is dark), no sound	Plug in the TV in the contractor is on, press C) or a programme number on the Renacle Commande). Check the serial connection. Check if the serial connection. Further it is not again using C. Further it is not again using C.
g	Poor or no picture (screen is dark), but sound is OK	• Press ® to enter the PICTURE CONTROL menu and acjust the BRIGHT. NESS, CONTRAST and COLOUR.
ction	Pour picture quality when watching a RGB video source	Press - El repeatedly to select - E.
ction	Good picture but no sound	Press $ extit{d}$ +. If at is displayed on the screen, press at.
•	No colour for colour programmes	 Press to enter the PICTURE CONTROL menu, select RESET, then press OK.
 Set the MEMUSE selector to the USE position. 	Remote Commander does not function	The batteries are weak Set the USE position.

If you continue to have problems, have your TV serviced by qualified personnel. Newer open the casing yourself

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are select for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

Press MENU to display the main menu.

So teet Ma and press OK

TV 1 PLUS

Fig. 49

Fig. 48

:3

TY 88C 1 AVI VHS 1 AV2 VHS 2 AV3 ECH 2 AV3 BETA TC1 VHS 3 AV4 CAB 1

Select "Video Connection" with $\Delta + \operatorname{cv} \nabla - \operatorname{and} \operatorname{press}$ OK. The VIDEO CONNECTION menu appears, (See Fig. 48.) You can see which source is selected for the TV and PIP input and for the output. If you want to select the input and output on this menu, go to the next step.

Select TV-screen (input source for the TV screen), PIP (input source for the PIP screen), or Output (output source) with Δ + or ∇ - and press OK.

One of the source items changes colour. (See Fig. 49.)

AV2 VNB 2 YC2 CAM 2 AV3 BETA TC3 VMB 3

50.00

Select the desired source with $\Delta+$ or $\nabla-$. (See Fig. 50.) For details about each source, see the table on page 24.

The selected source is confirmed, and the cursor appears. (See Press OK. Fig. 51.)

A LIAN

TV BBC B AVI VHS B AVI BETA VC3 VHS B AVI BCA TC4 CAE 1

Beleei 📉 and press OK

Repeat steps 2 to 4 to select the source for other inputs or outputs. Press MENU to return to TV picture.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: Beta, 8 mm and VHS VTRs and video disc players.

Set the VTR 1/2/3 MDP selector according to the equipment you Tuning the Remote Commender to the equipment

VTR1: Beta VTR VTR2: 8 mm VTR VTR3: VHS VTR MDP: Video disc player

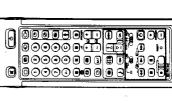
want to control:

Use the buttons indicated in the illustration to operate the additional equipment.

BONY

Support and appropriate stumished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Bernote Commander. If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

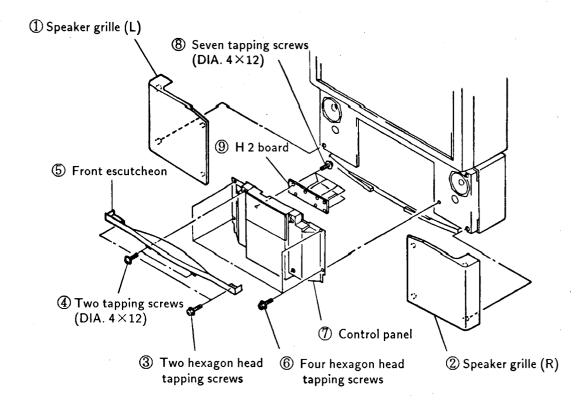




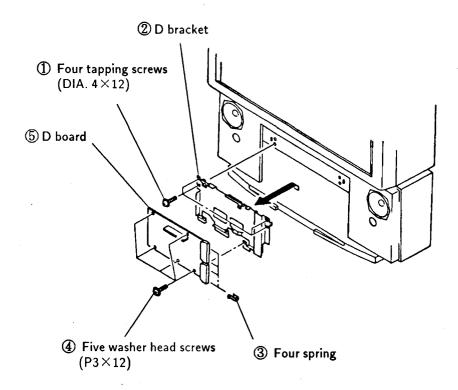
when you use the encounty button, make sure to press this button and the one to the right of it simultaneously.

SECTION 2 DISASSEMBLY

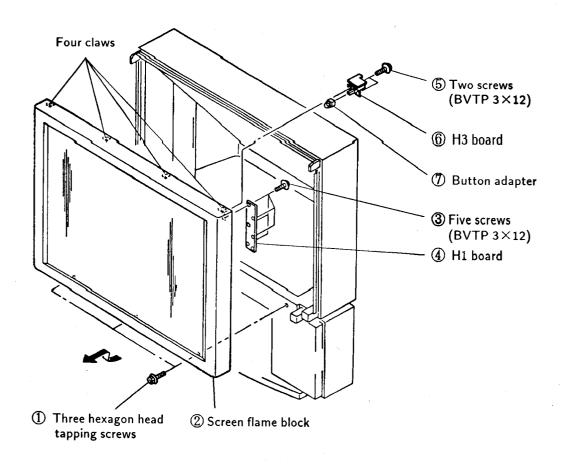
2-1. H 2 BOARD REMOVAL



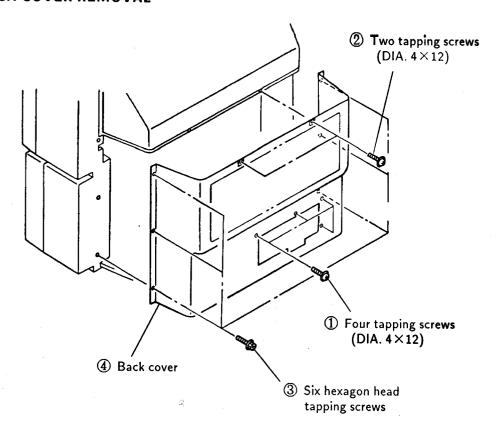
2-2. D BOARD REMOVAL



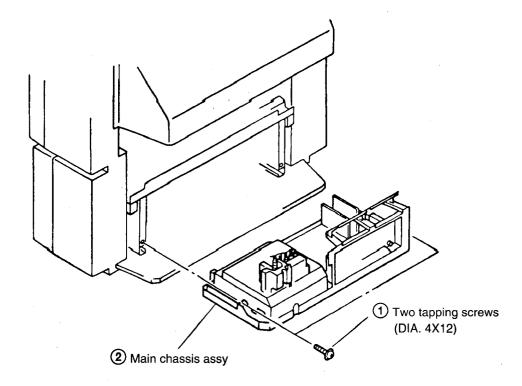
2-3. H1 AND H3 BOARDS REMOVAL



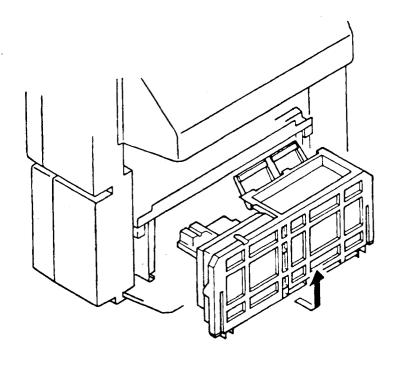
2-4. BACK COVER REMOVAL



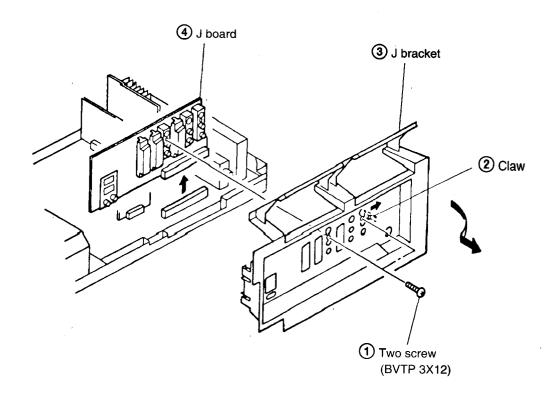
2-5. MAIN CHASSIS ASSY REMOVAL



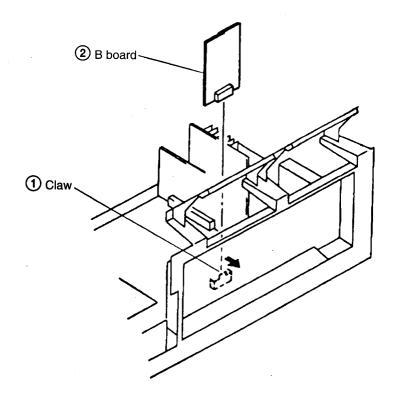
2-6. SERVICE POSITION

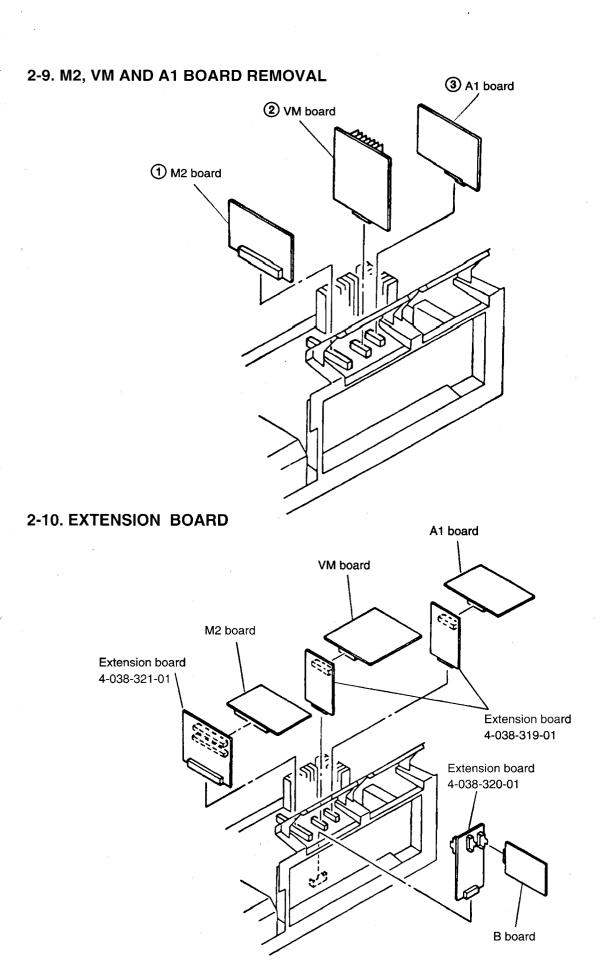


2-7. J BRACKET AND J BOARD REMOVAL

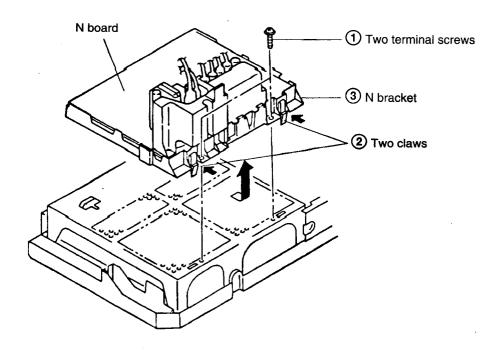


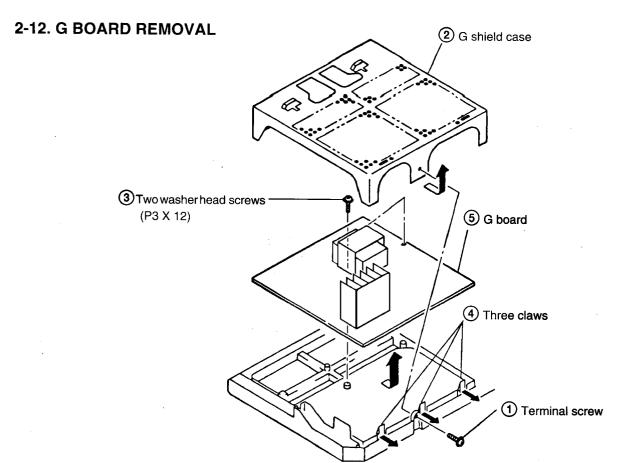
2-8. B BOARD REMOVAL



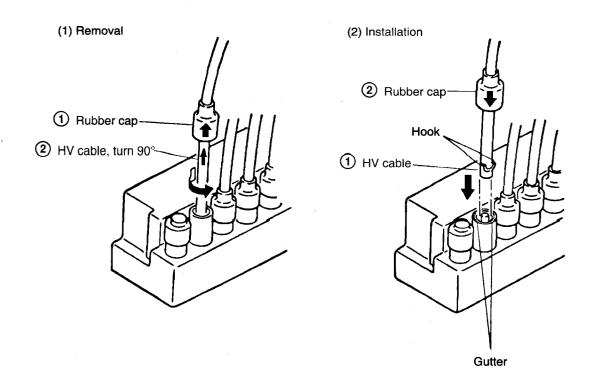


2-11. N BRACKET REMOVAL

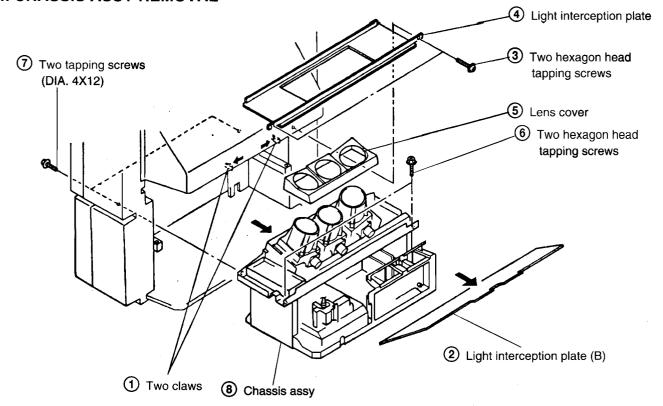


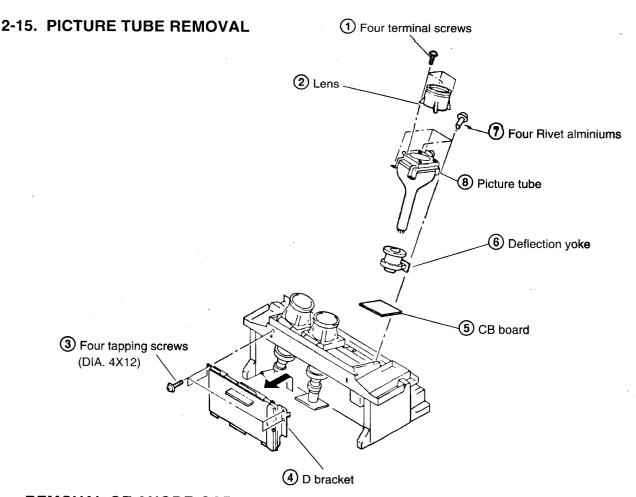


2-13. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



2-14. CHASSIS ASSY REMOVAL





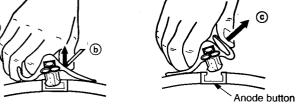
REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

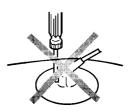
REMOVING PROCEDURES

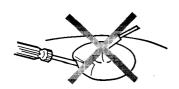


- ① Turn up one side of the rubber cap in the direction indicated by the arrow ②.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow **(b)**.
- HOW TO HANDLE AN ANODE-CAP
- ① Don't damage the surface of the anode-cap with sharp shaped material!
- ② Don't press the rubber hardly hardly not to hurt inside of anode-caps!
 - A material fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

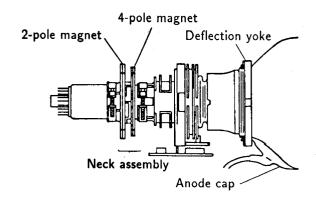




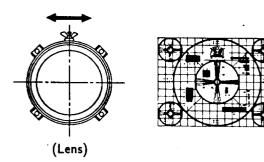
SECTION 3 SET-UP ADJUSTMENTS

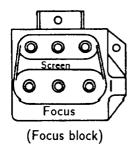
3-1. FOCUS LENS ADJUSTMENTS

- Set the D-board registration variable resistor (VR) and the position VR (CENTER VR) to mechanical.
- 2. Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.

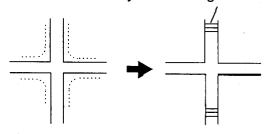


- 3. Input monoscope signal. Set 50% BRIGHTNESS and minimum PICTURE. Make rough adjustment so that 10IRE of the monoscope signal becomes faintly luminous.
- Set PICTURE and BRIGHTNESS maximum.
 Press the commander menu button. Select
 CONVERGENCE to display test signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 6. Turn the green lens to eliminate flare of the test signal.

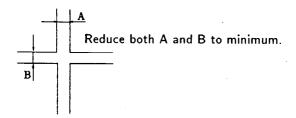




Verify that scanning lines are seen.



7. Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



8. Repeat avobe 7. Couple of times to improve tracking and obtain an optimum lens focus. Then tighten the lens screws.

3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

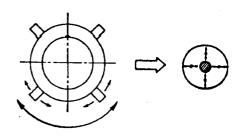
- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
- 4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
- 5. Also adjust DY positions for red and blue outputs in the same way.

3-3. 2-POLE MAGNET ADJUSTMENT

- 1. Input dot signal.
- 2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.

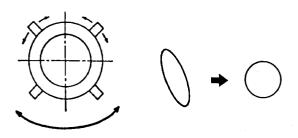
Similarly, select B OFF to cut off blue output.

- 3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise to brighten the point in the dot.
- 4. Adjust the 2-pole magnet to position the bright point at the center of the dot.
- 5. Adjust the red and blue dots in the same way.



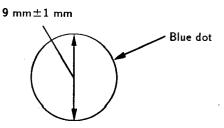
3-4. 4-POLE MAGNET ADJUSTMENT

- 1. Input dot signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block clockwise until the dot diameter becomes 15 mm to 20 mm.
- 4. Adjust the 2-pole magnet to make the dot perfectly round.
- 5. Adjust the red and blue dot in the same way.



3-5. DE-FOCUS ADJUSTMENT (BLUE)

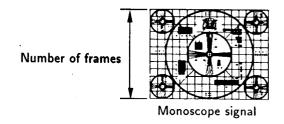
- 1. Input dot signal.
- 2. Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the diameter of the blue dot becomes 9±1mm.

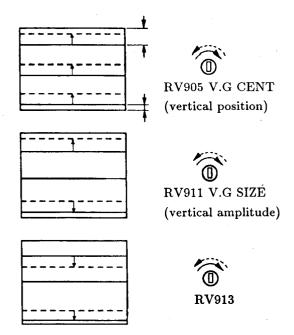


3-6. GREEN PICTURE ADJUSTMENTS

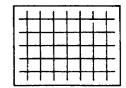
- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 3. Turn RV913 and RV960, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain an optimum vertical linearity. Then turn RV911, the vertical green amplitube variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 flames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.





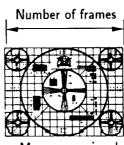
4. Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.



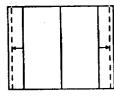
5. Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.

Then turn RV908, the horizontal green amplitude variable resistor (H.G SIZE VR) to set horizontal amplitude to 15.6 frames.

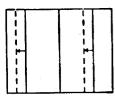
Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.



Monoscope signal







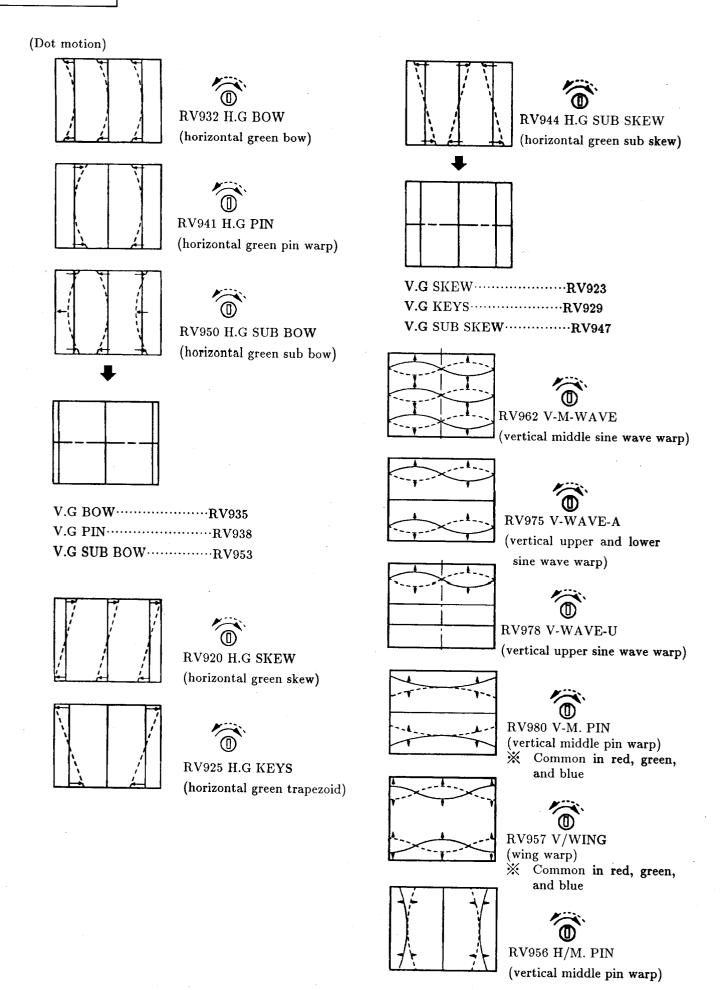


RV916 H.G LIN (horizontal linearity)

6. Input cross hatch signal.
Turn vertical green (V.G) and horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps:

(Adjustment procedure)

- 1. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 2. [PIN (pin warp)] \rightarrow [SUB BOW] \rightarrow [BOW]
- 3. $[KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]$
- 4. [M.WAVE (middle sine wave warp)] → [WAVE-A (upper and lower sine wave warp)] → [WAVE-U (upper sine wave warp)]
 ※ For vertical (V) only.
- [V-M.PIN (vertical middle pin warp)] →
 [V/WING (vertical wing warp)]
 ※ For vertical (V) only.
- 6. [H-M.PIN (horizontal middle pin warp)]※ For horizontal (H) only.

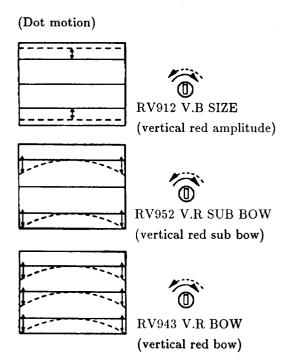


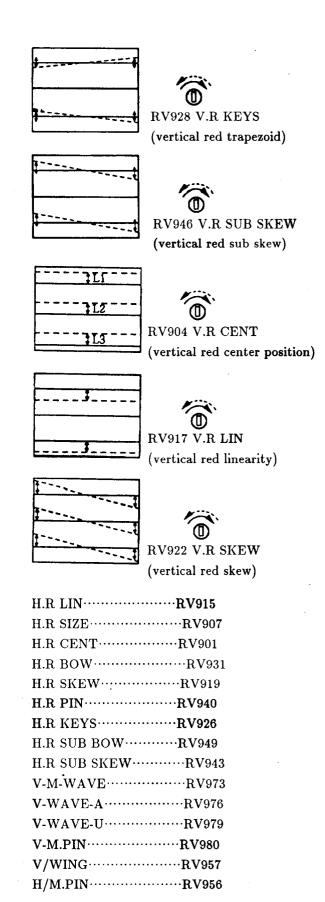
3-7. GREEN AND RED REGISTRATION ADJUSTMENTS

- 1. Input cross hatch signal.
- 2. Enter service mode. Select B OFF of SERVICE MODE to cut off blue output.
- 3. Turn the vertical red (V.R) and horizontal red (H. R) variable resistors (VRs) to adjust red picture convergence in relation to green picture according to the following steps:

(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] →
 [CENT (center position)] →
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
 [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
- [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]



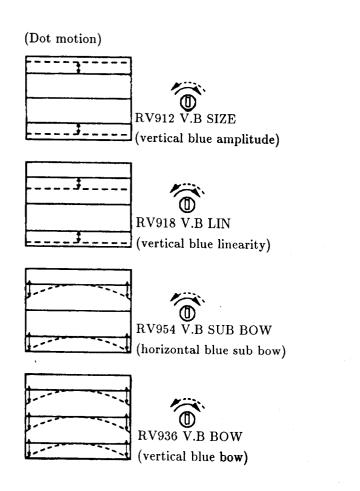


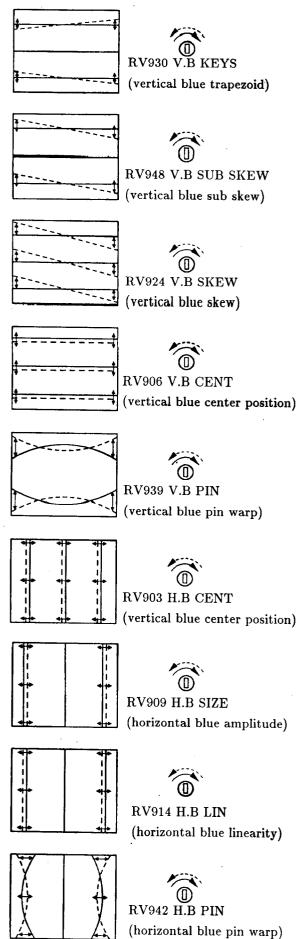
3-8. GREEN AND BLUE REGISTRATION ADJUSTMENTS

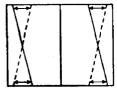
- 1. Input cross hatch signal.
- 2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
- 3. Turn the vertical blue (V.B) and horizontal blue (H.B) variable resistors (VRs) to adjust blue picture convergence in relation to green picture according to the following steps:

(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] →
 [CENT (center position)] →
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
 [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]
- [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)] →

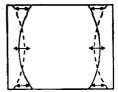






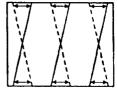


RV954 H.B SUB SKEW (horizontal blue sub skew)

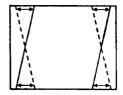




RV951 H.B SUB BLOW (horizontal blue sub bow)

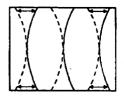






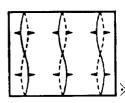


RV927 H.B KEYS (horizontal blue trapezoid)



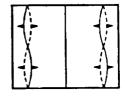


RV933 H.B BOW (horizontal blue bow)





RV981 Common in red, green, and blue





X Common in red, green, and blue

H/M PIN······	·RV958
$M.WAVE\cdots\cdots\cdots$	··RV961
WAVE-A·····	·RV974
WAVE-U·····	·RV977

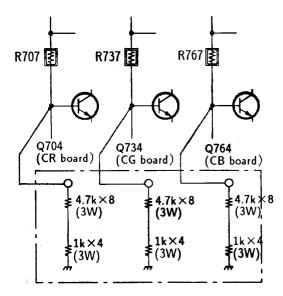
3-9. REGISTRATION ADJUSTMENTS

- 1. Out put red, blue, and green.
- 2. Out put cross hatch and monoscope signals to check registration. Also check focus.

3-10. WHITE BALANCE ADJUSTMENTS

1) Screen adjustment

- 1. Input white signal.
- 2. Remove connectors CR-15, CG-16, and CB-17.
- 3. Fit jigs between the ground and R707, R737, and R767.



※ Resistors in each jig are connected serial.

- 4. Turn the RGB (red, green, and blue) screed variable resistors in the focus block to make the flyback line faint. Stop before the line complete disappears.
- 5. Insert connectors CR-15, CG-16, and CB-17.

2) White balance adjustments (09, 14, 15, 16, 17)

- 1. Input monoscope signal and enter service mode.
- 2. Select the picture quality adjustment from the menu and set PICTURE minimum. Select the CXA1587S service item.
- Use the commander to adjust 09 (SUB BRIGHT) so that 10IRE of the monoscope pattern becomes faintly luminous.
- 4. Input white signal.
- 5. Set PICTURE minimum. Adjust item 16 (green cut off) and 17 (blue cut off) to obtain an optimum white balance.
- 6. Set PICTURE maximum. Adjust 14 (green-drive) and 15 (bluedrive) to obtain an optimum white balance.
- 7. Repeat white balance adjustment alternating PICTURE setting at the minimum and maximum.

SECTION 4

CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-842.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

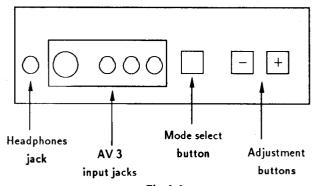
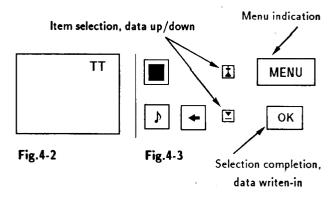


Fig.4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode



3. Press the MENU button of the commander to get the menu on screen.

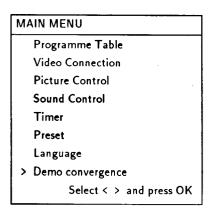


Fig.4-4

- 4. Press the ♣ and ▶ buttons of the commander and move > to DEMO.
- 5. Press OK button to proceed to the next menu.
- 6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.

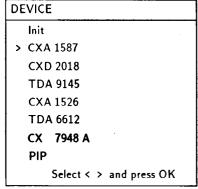


Fig.4-5

7. If adjustment item is CXA 1587, press the

□ button and move > to CXA 1587.

CXA 1587

Item No.	Adjustment item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	3
12	NR LEVEL .	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

- 8. Press OK button to get the next selection menu.
- 9. Press Dutton and move > to the adjustment item and press OK button.
- 10. Press the **\(\beta\)** and **\(\beta\)** buttons to change the data in order to comply each standard.
- 11. Press OK button to write data.
- 12. Turn off the power to quit service mode when completing the adjustment.

CXA 1587

		<u> </u>
Item No.	Adjustment item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	3
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	0
22	DC TRANSFER RATIO	3
23	DINAMIC PICTURE	2
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	ALL BLK	OFF
30	H SHIFT	32
31	DAC TEST	OFF
32	PRE/OVER SHOOT	7
33	SHARPNESS FO	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF

CXA 1526

Item No.	Adjustment item	Data Amount
01	DC SHIFT	32
02	UPPER Y BOW	4
03	LOWER Y BOW	5
04	H.AMP	48
05	HTILT	29
06	UPPER COR BOW	32 ·
07	UPPER TILT	32
08	LOWER COR BOW	32
09	LOWER TILT	32

38	AGING 1	OFF
39	AGING 2	OFF
40	AKB	ON
41	INHIBIT RGB	OFF
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE SW	OFF
46	V EXTENTION	OFF
47	AFC 1	1
48	AFC 2	0
49	AFC	ON
50	REF.POSITION	0

CXD 2018

Item No.	Adjustment item	Data Amount
01	V SIZE	No ADJ.
02	V SHIFT	No ADJ.
03	S CORRECTION	No ADJ.
04	V LINEARITY	No ADJ.
05	H SIZE	No ADJ.
06	PIN AMP	No ADJ.
07	TILT	No ADJ.
08	UPPER CORNER	No ADJ.
09	LOWER CORNER	No ADJ.
10	V BOW	No ADJ.
11	ANGLE	No ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	No ADJ.

Typical Value (OSD based)when receiving PAL Philips pattern.

TDA 6612	Adjustment item	Data Amount
	Stereo-Separation	30

Should be adjusted twice 4:3 and 16:9 mode.

CX 7948 a

Cross Bar

(off)

Mesh

(off)

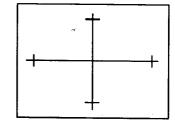
Fine Mesh

(off)

Select ▲ ▼ and press OK.

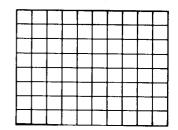
Cross Bar

(on)



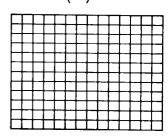
Mesh

(on)



Fine Mesh

(on)



Y FILTER ADJUSTMENT

- 1. Input PAL RED pattern.
- 2. Connect an oscilloscope to CN 0123 ① pin (R OUT) on the A board.
- 3. Enter into service mode and press 3, 8.
- 4. Adjust data by \triangle or ∇ to minimize the chroma element of CN 0123 1 pin.

SUB BRIGHTNESS ADJUSTMENT

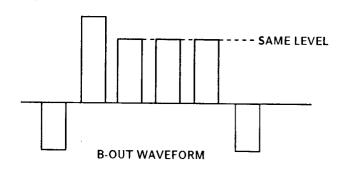
- 1. Input Phillips pattern.
- 2. Enter into service mode and press 23.
- Adjust data so that 0-IRE of the grey scale and CUT
 -OFF 20-IRE glitter slightly.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains small 100% area on the Black Back ground.
- Enter into service mode and press 01 to have PIC max followed by 21.
- 3. Adjust data so that 2.5 Vp-p can be obtained at ① CN 0123 (R out).

SUB COLOR ADJUSTMENT

- 1. Input PAL color bar.
- 2. Connect an oscilloscope to CN 0125 ① pin (B OUT) on the A board.
- 3. Enter into service mode and press 22 of CXA 1587, 8 SUB COLOR.
- 4. Adjust data so that the right sides of the waveform will be the same.



STEREO-SEPARATION ADJUSTMENT

- Input 1 kHz stereo signal to the L-ch and 400 Hz stereo signal to the R-ch.
- 2. Enter into service mode and press 19.
- 3. Adjust data so that sound does not leak to the R-ch and the L-ch.

DRIVE AND CUT OFF

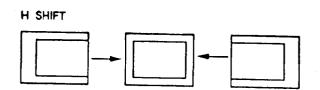
See direct test mode list attached and refer to sub brightness or such for adjustment method.

DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into service mode and select CXD 2018.
- 2. Select and adjust each item in order to get an optimum image.

CXD 2018

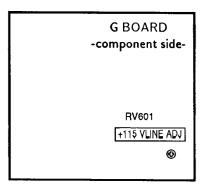
Item No.	Adjustment item	Data Amount
01	V SIZE	No ADJ.
02	V SHIFT	No ADJ.
03	S CORRECTION	No ADJ.
04	V LINEARITY	No ADJ.
05	H SIZE	No ADJ.
06	PIN AMP	No ADJ.
07	TILT	No ADJ.
08	UPPER CORNER	No ADJ.
09	LOWER CORNER	No ADJ.
10	V BOW	No ADJ.
11	ANGLE	No ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	No ADJ.



3. Press $\overline{\rm OK}$ button to write the data.

If menu display may disturb the adjustment press of to clear, to resume it, press of again.

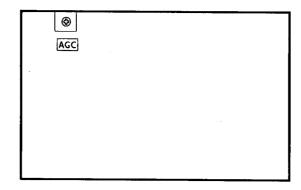
4-2. G BOARD ADJUSTMENTS



+115 V ADJUSTMENT (RV 601)

- 1. Input the color-bar signal.
- 2. Connect a digital multimeter to ⑤ pin of CN 1654.
- 3. Adjust RV 601 so that voltage is $+115 \text{ V} \pm 0.5 \text{ V}$.

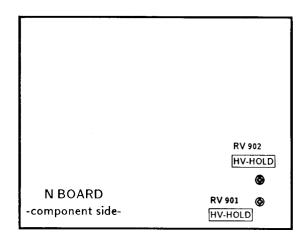
4-3. IF ADJUSTMENT



AGC ADJUSTMENT (IF BLOCK)

- 1. Receive off-air signal.
- 2. Adjust AGC VR so that there is no snow noise and cross-modulation.
- 3. Change receiving channel and confirm status.

4-4. N BOARD ADJUSTMENTS



HV-HOLD DOWN ADJUSTMENT

- 1. Connect the HV meter.
- 2. Receive dot pattern.
- 3. Adjust HV to 33.5 ± 0.1 KV by RV 901.
- 4. Slowly turn the RV 902 till HV-HOLD DOWN work.
- 5. RV 902 fixed with RTV.

HV-REGULATOR ADJUSTMENT

- 1. Connect the HV meter.
- 2. Receive dot pattern.
- 3. Adjust HV to 31.5 ± 0.1 KV by RV 901.
- 4. RV 901 fixed with RTV.

4-5. TEST MODE 2:

Is available by pressing Test button two times, OSD "TT" appears. The functions described bellow are available by pressing the two numbers. To release the Test Mode 2, press two times 0, or switch TV in Standby Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Aging Condition (Volumin., Picture max., Brightness
	max., Aging 2 Mode of CXA 1587, TDA 2595 is
	locked to CXA 1587 via PIN 34 of μ -Con.)
80	Shipping Condition (Analog Values are RESET due
	to factory setting, Prog 1 is selected, TT Mode is
	switched off)
09	dummy
10	Tenth entry is deleted
11	Balance
12	Hue
13-14	dummy
15	Read factory setting from NVM
	Reads Volume, Balance, Treble, Bass, Brightness,
	Contrast, Hue, Sharpness, Colour values from ROM
	to the actual used values (Last Power Memory)
16	Save actual used values as RESET values
	Memorize actual used values Balance, Treble, Bass,
	Hue, Sharpness at RESET position in NVM
17	Preset Lavel for AV Sources
18	dummy
19	Stereo Seperation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted			
31	Green Drive			
32	Blue Drive			
33	Green Cut Off (Auto Cut Off)			
34	Blue Cut Off (Auto Cut Off)			
35	Red Cut Off (Manual Cut Off)			
<u> </u>	(Auto Cut Off is switched off)			
36	Green Cut Off (Manual Cut Off)			
	(Auto Cut Off is switched off)			
37	Blue Cut Off (Manual Cut Off)			
	(Auto Cut Off is switched off)			
38	Y-Filter adjustment (Trap is switched off and TDA			
	9145 is switched in forced NTSC Mode)			
39	dummy			
40	Tenth entry is deleted			
41	Default setting of CXA 1587			
	(Only in Plog 99 available)			
42	Default setting of CXA 2018			
	(Only in Plog 99 available)			
43	Default setting of CXA 1526			
	(Only in Plog 99 available)			
44	(all Port High) Not yet			
45	(all Port High) Not yet			
46-48	dummy			
49	Erease the NVM Testbyte (this byte detects already			
	stored NMV's) After selecting this function, switch			
	TV Off and On $ ightarrow$ the NVM will be preset by μ -			
1	Controller. (Not the channel data)			

Note: For No. 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected.

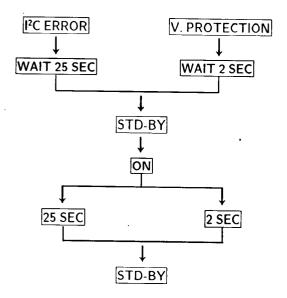
After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched On and TDA 9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

4-6. ERROR MESSAGE

Self diagnos system can operates as follows.

• When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.



In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs shows error 2).

TABLE OF ERRORS

ERROR COUNT	IC TYPE	FUNCTION	
1	II C BUS	SDA low	
2	X 24 C 16	EEPROM	
3	SDA 3202	Tuner PII	
4	TDA 9145	Colour decoder	
5	CXA 1587	RGB/Jungle	
6	TDA 6612 Sound proces		
7	CXD 2018	V deflection	
8	CXA 1545	AV switch	
11	SDA 5248	Text	
13		V protection	

Stand by LED

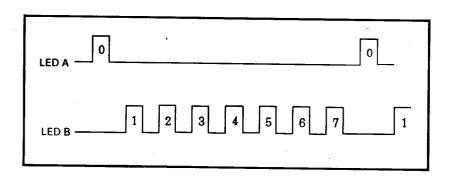
No IK return

blinking

4-7. ERROR II C BUS DIAGNOSIS SYSTEM

For all ICs in AP-1E chassis which are neccessary to get picture and sound there is a built in error I²C Bus diagnosis system.

In case of no acknowledge bit, LED A and LED B starts blinking as shown.



MEMO						
7.2.2						
		mp				

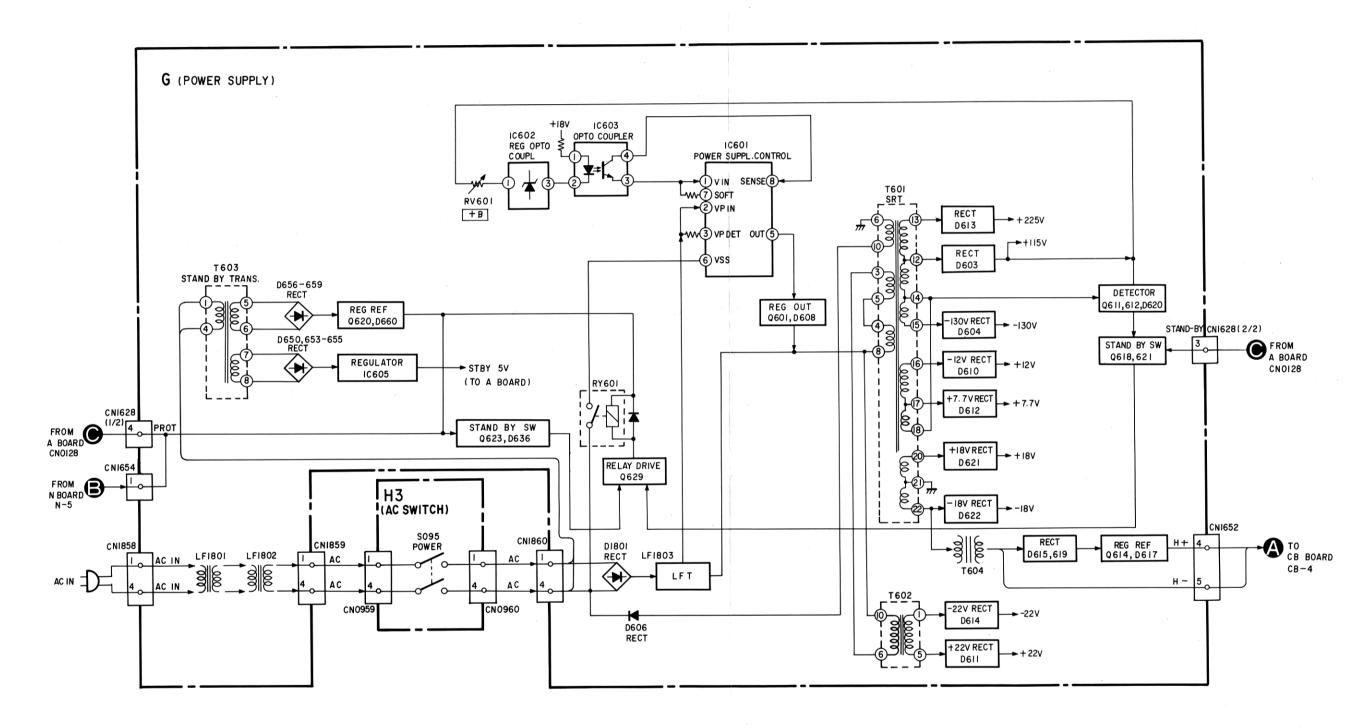
	-					
				•	2	
	each.					

		475.				
				, e , w		
		5/3				
				·		
		74				
				`		
		·				
					T	

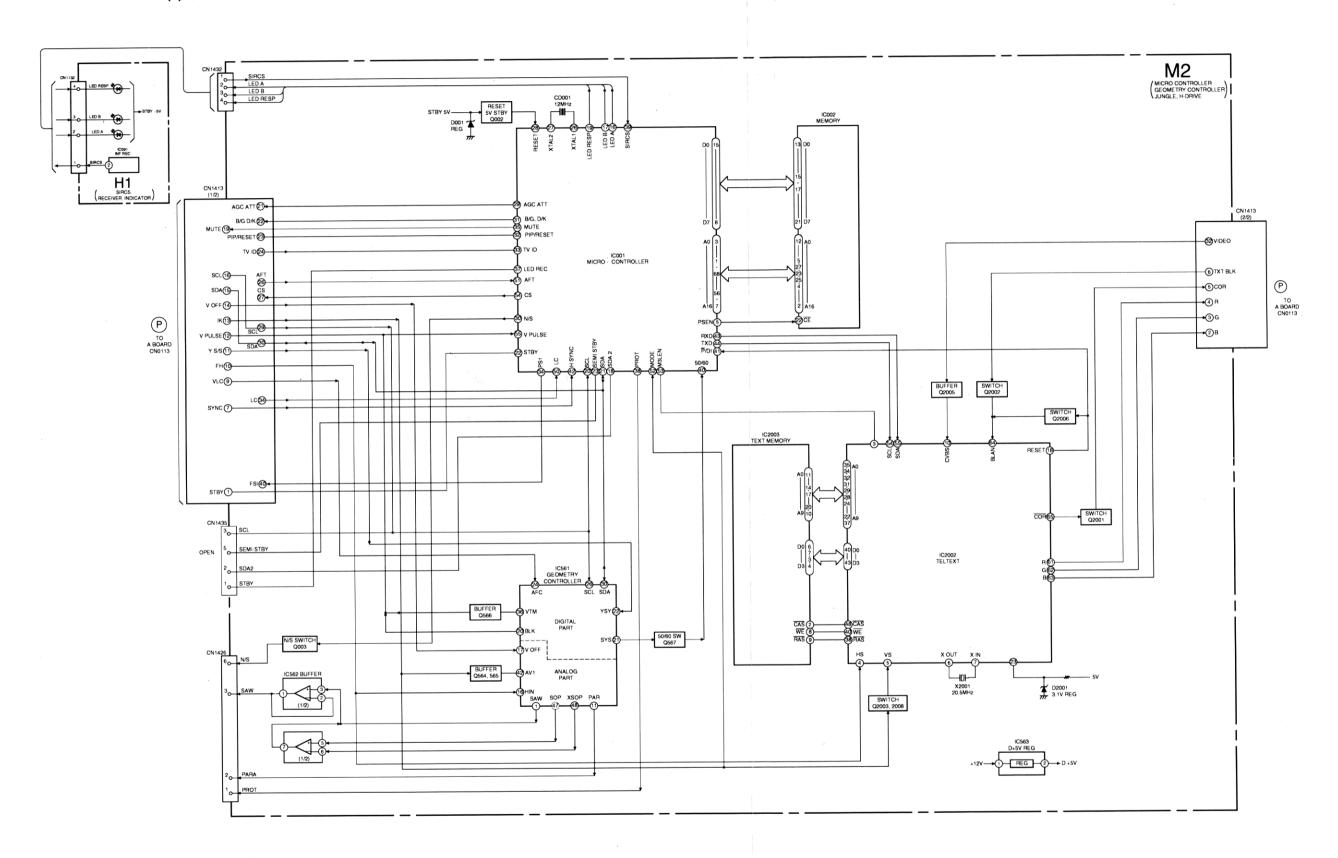
·						
		-11 ₋₁₁₁	****			
						*

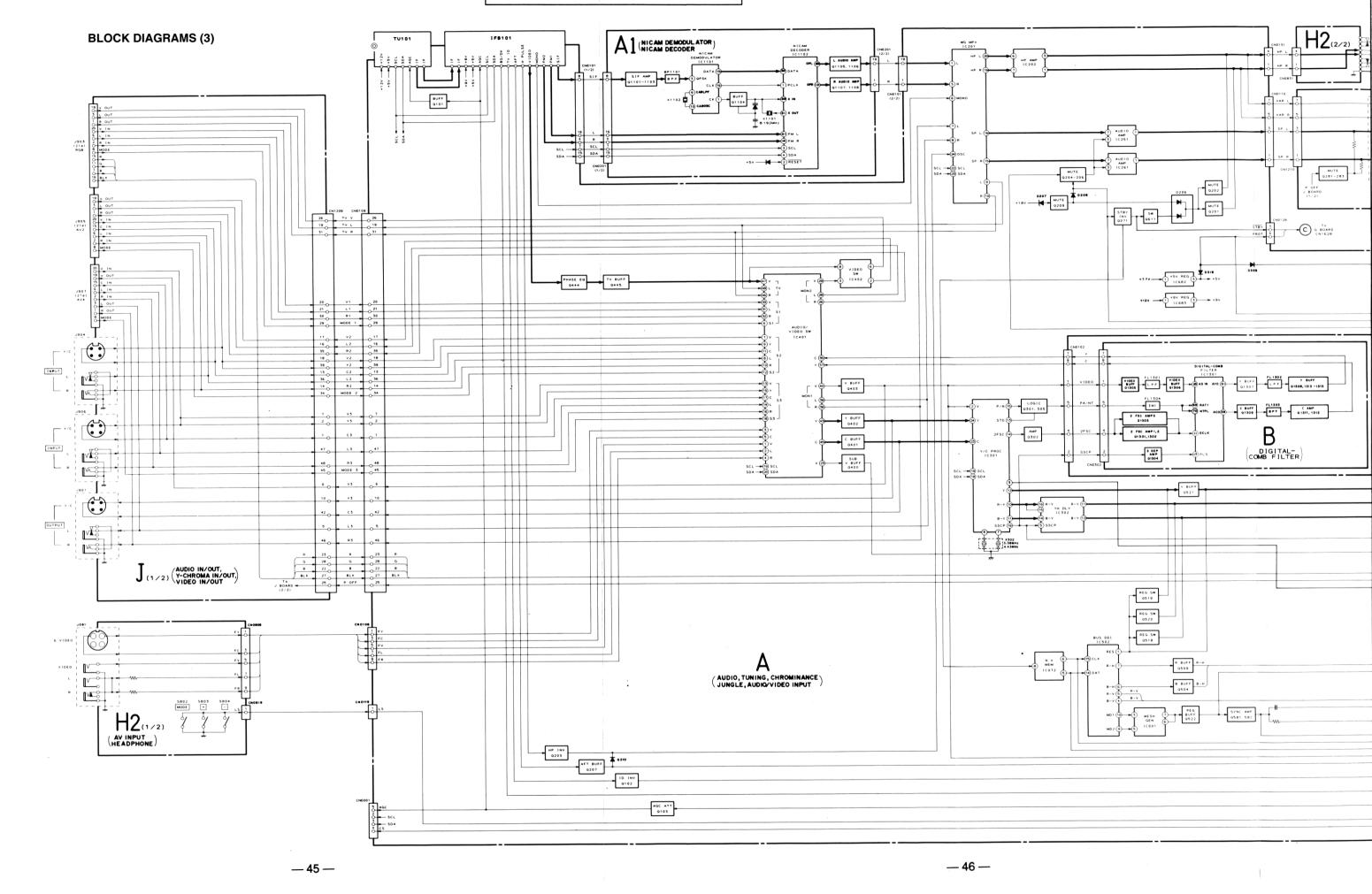
SECTION 5 DIAGRAMS

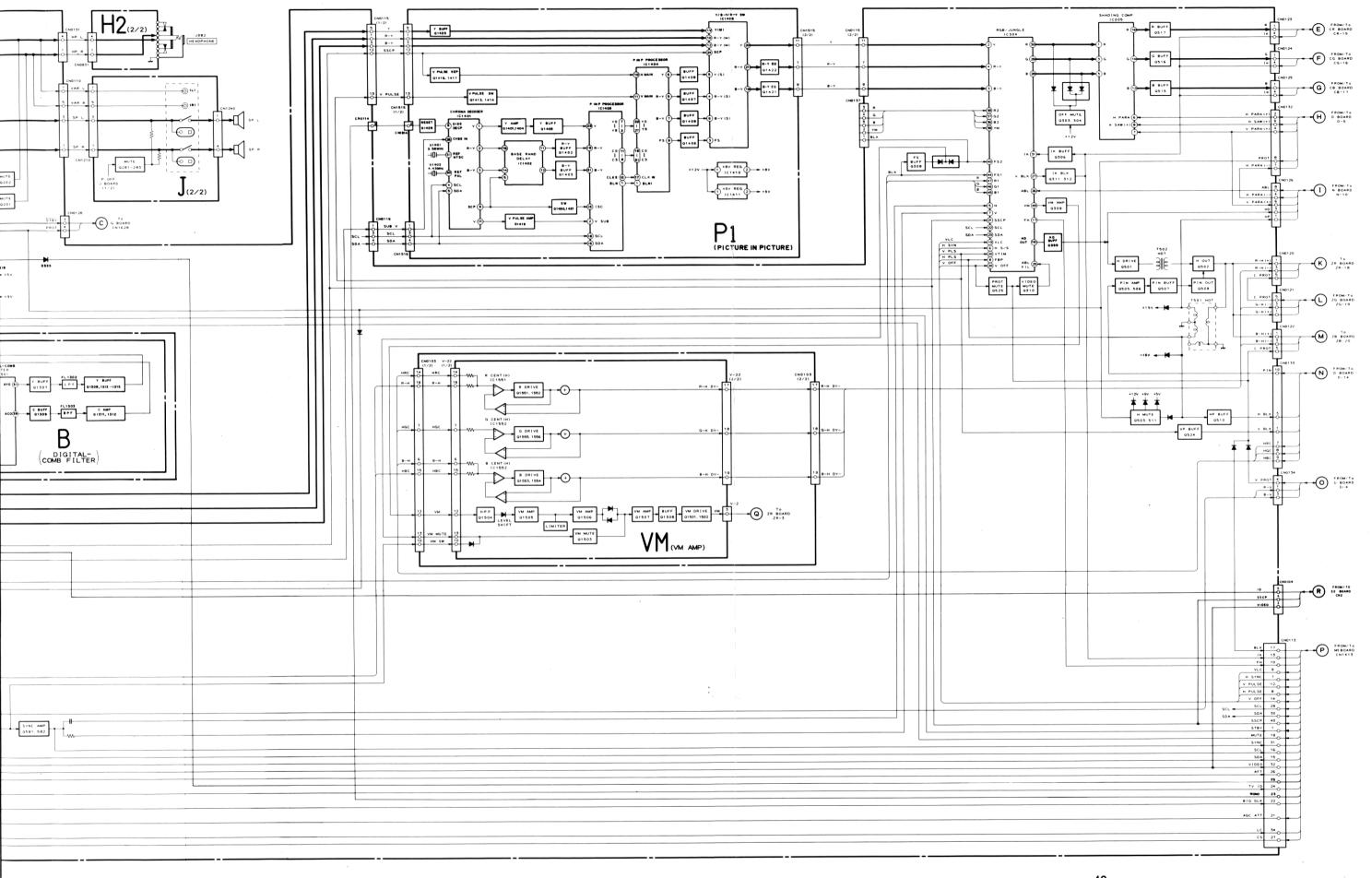
5-1. BLOCK DIAGRAMS (1)



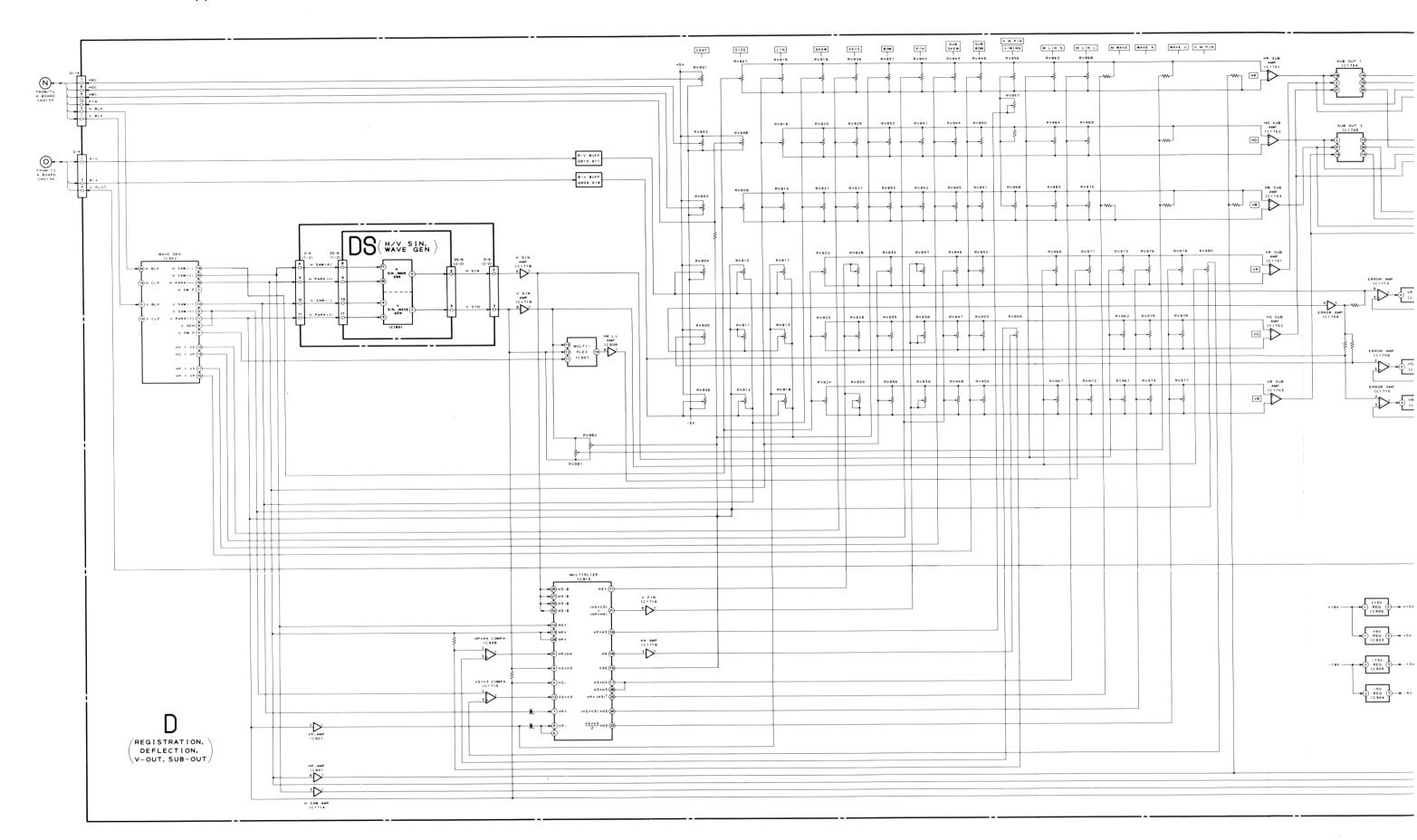
BLOCK DIAGRAMS (2)

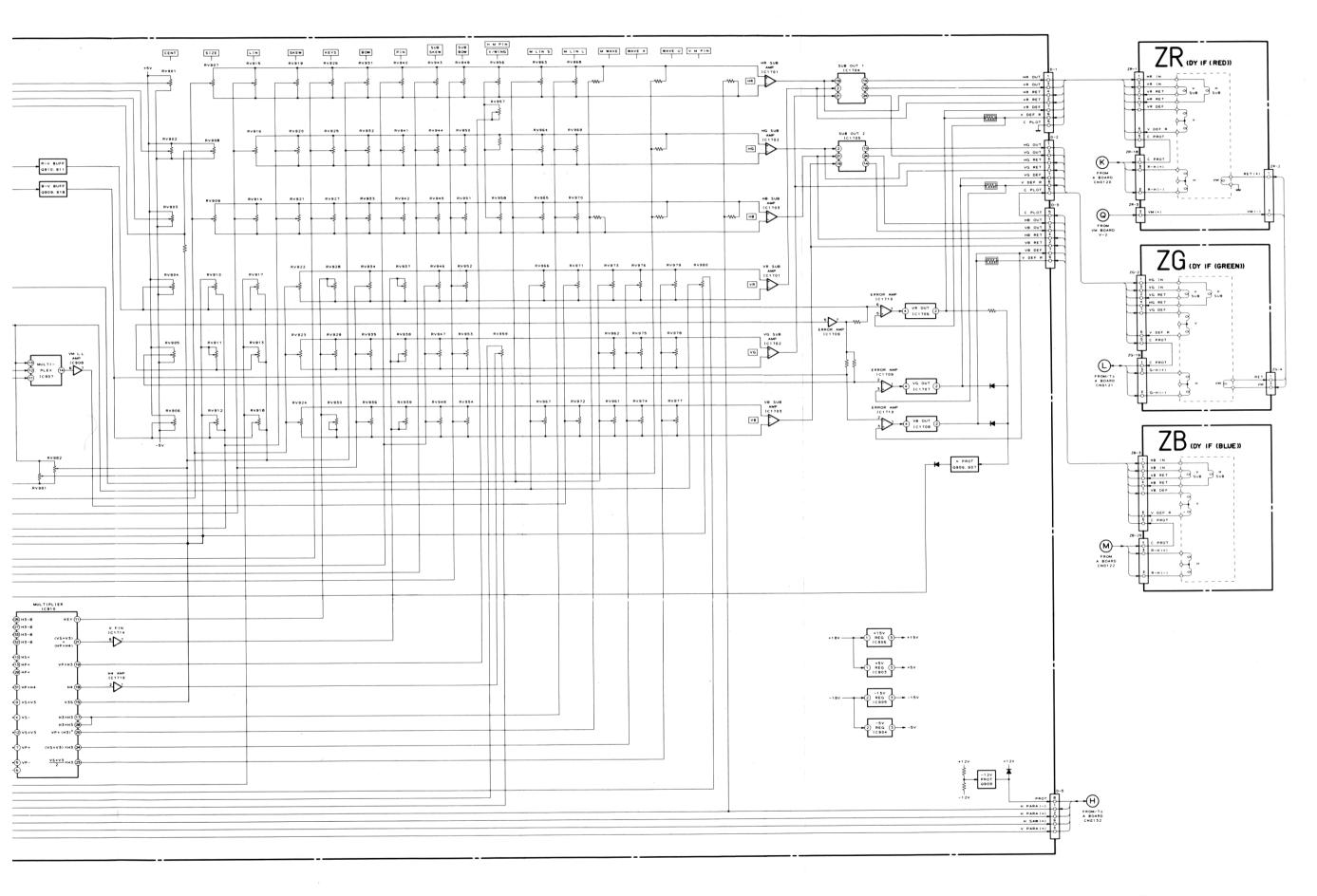




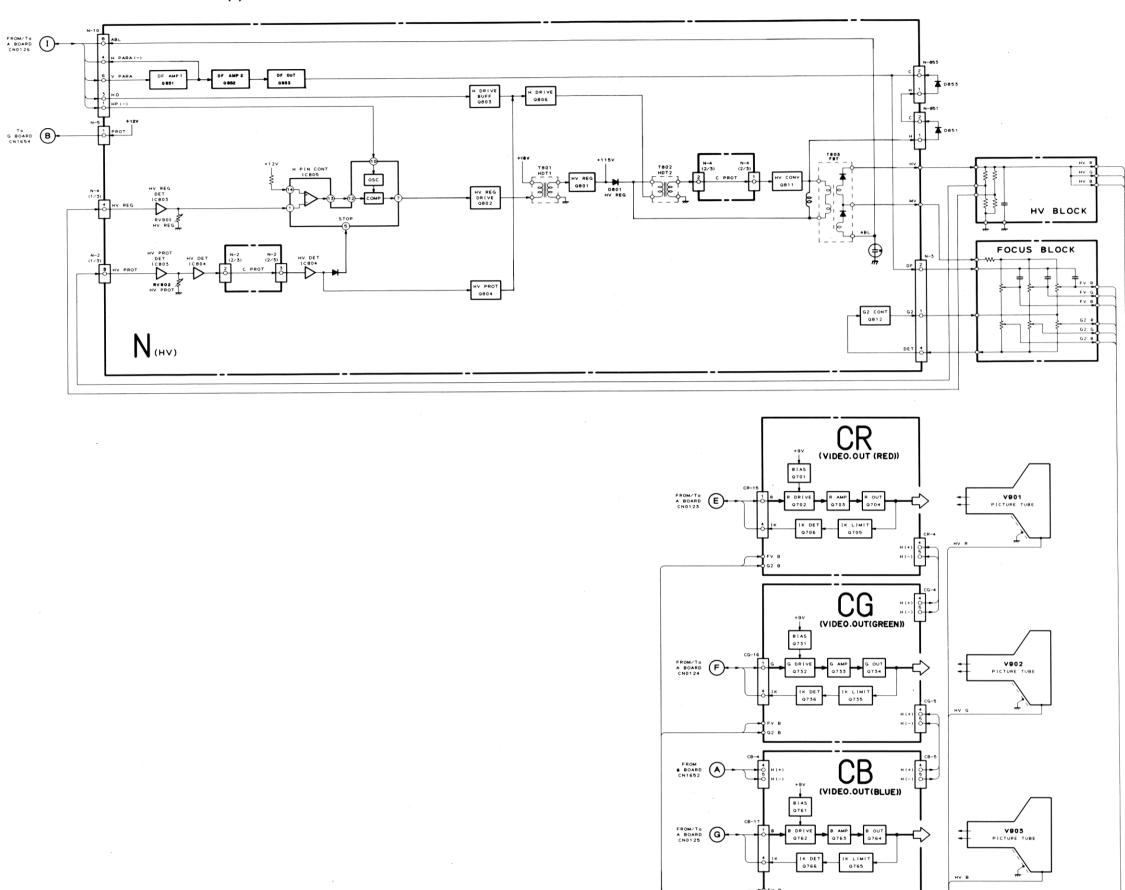


BLOCK DIAGRAMS (4)

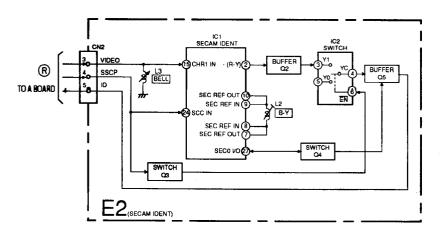




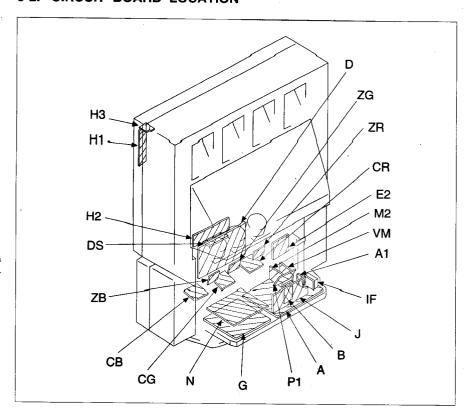
BLOCK DIAGRAMS (5)



BLOCK DIAGRAMS (6)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.

All resistors are in ohms.

k = 1000, M = 1000K

Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 4 W

: nonflammable resistor. \triangle : internal component.

: panel designation, or adjustment for repair.

All variable and adjustable resistors have characteristic curve

B, unless otherwise noted. 丄 : earth - ground.

 \overrightarrow{m} : earth - chassis. # : no mounted.

Note: The components identified by shading and marked are critical for safety. Replace only with part number specified.

Reference information

RESISTOR : RN METAL FILM

: RC SOLID

: FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE

: RS NONFLAMMABLE METAL OXIDE

NONFLAMMABLE CEMENT : RB : RW

NONFLAMMABLE WIREWOUND : X: ADJUSTABLE RESISTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR : TA TANTALUM

: PS STYROL

POLYPROPYLENE : PP

: PT **MYLAR**

: MPS METALIZED POLYESTER

: MPP METALIZED POLYPROPYLENE

: ALB **BIPOLAR**

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

Readings are taken with a colour-bar signal input.

Readings are taken with 10M digital multimeter.

Voltages are dc with respect to ground unless otherwise noted. Voltage variations may be noted due to normal production

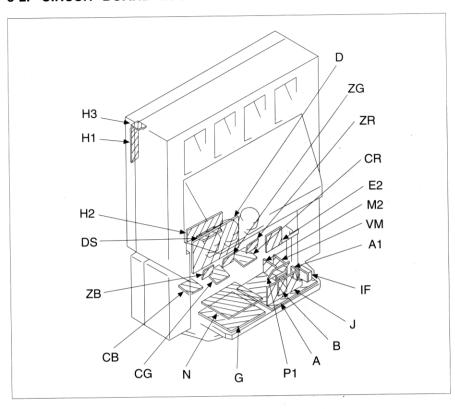
tolerances. All voltages are in V.

Circled numbers are waveform references.

: B+ bus.

: signal path. (RF)

5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note	٠
11016	٠

 All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.

All resistors are in ohms.

k = 1000 , M = 1000K

• Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

: nonflammable resistor.
: internal component.

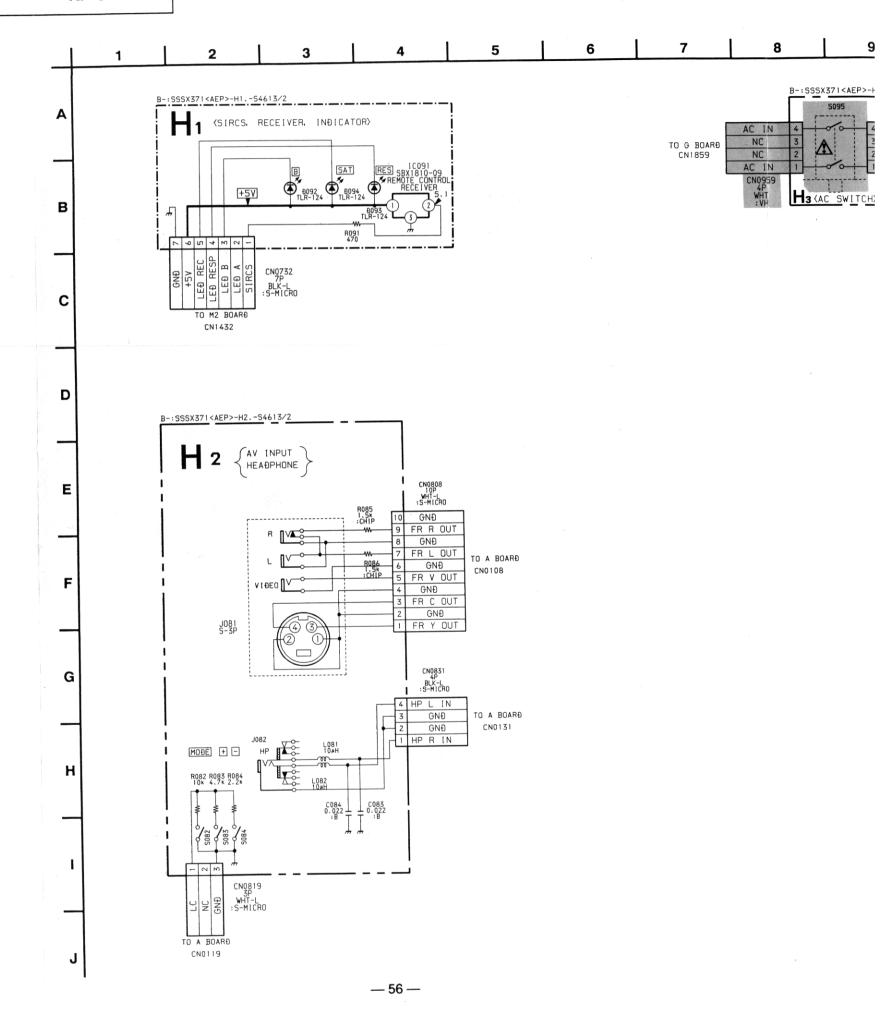
• : panel designation, or adjustment for repair.

All variable and adjustable resistors have characteristic curve

Reference information METAL FILM RESISTOR : RN : RC SOLID : FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FUSE NONFLAMMABLE METAL OXIDE : RS : RB NONFLAMMABLE CEMENT NONFLAMMABLE WIREWOUND : RW ADJUSTABLE RESISTOR : × MICRO INDUCTOR COIL : LF-8L **TANTALUM** CAPACITOR : TA STYROL : PS POLYPROPYLENE : PP : PT : MPS METALIZED POLYESTER METALIZED POLYPROPYLENE : MPP **BIPOLAR** : ALB HIGH TEMPERATURE : ALT HIGH RIPPLE : ALR Readings are taken with a colour-bar signal input. Readings are taken with 10M digital multimeter Voltages are dc with respect to ground unless otherwise noted. Voltage variations may be noted due to normal production All voltages are in V.

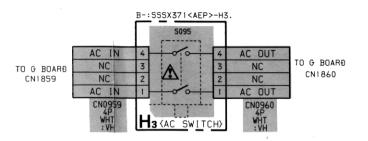
Circled numbers are waveform references.

: B+ bus. : signal path. (RF)



KP-S4613/2



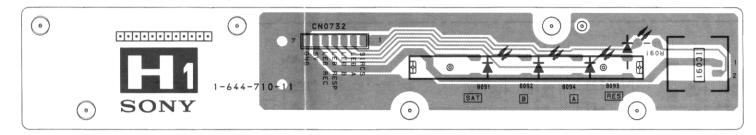


H1 [SIRCS, RECEIVER,]

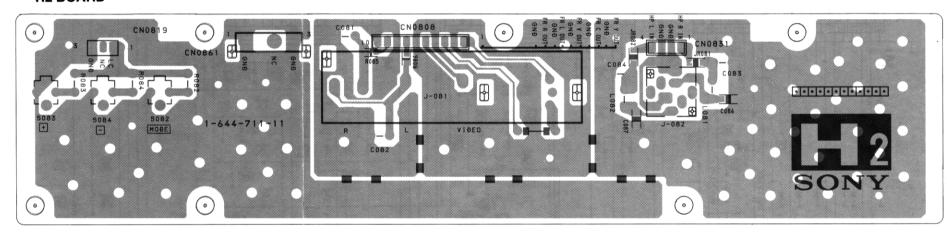
H2 [AV INPUT HEADPHONE]



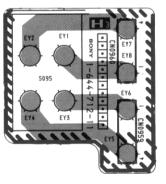
- H1 BOARD -

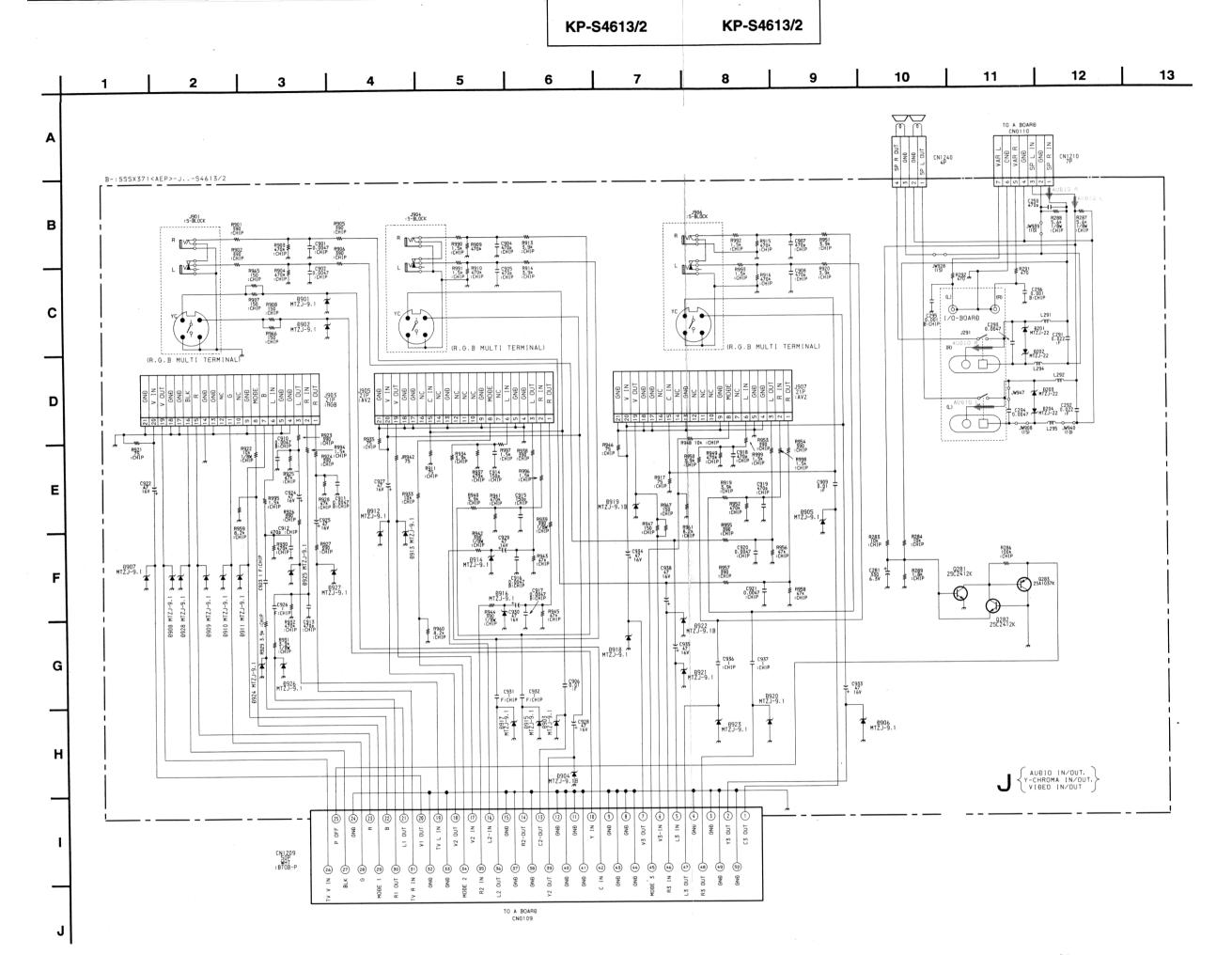


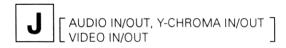
— H2 BOARD —



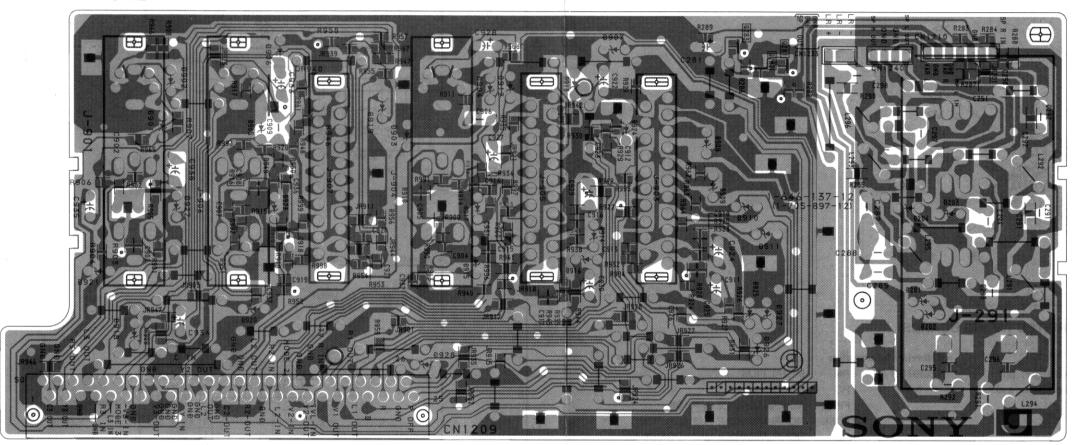
— H3 BOARD —



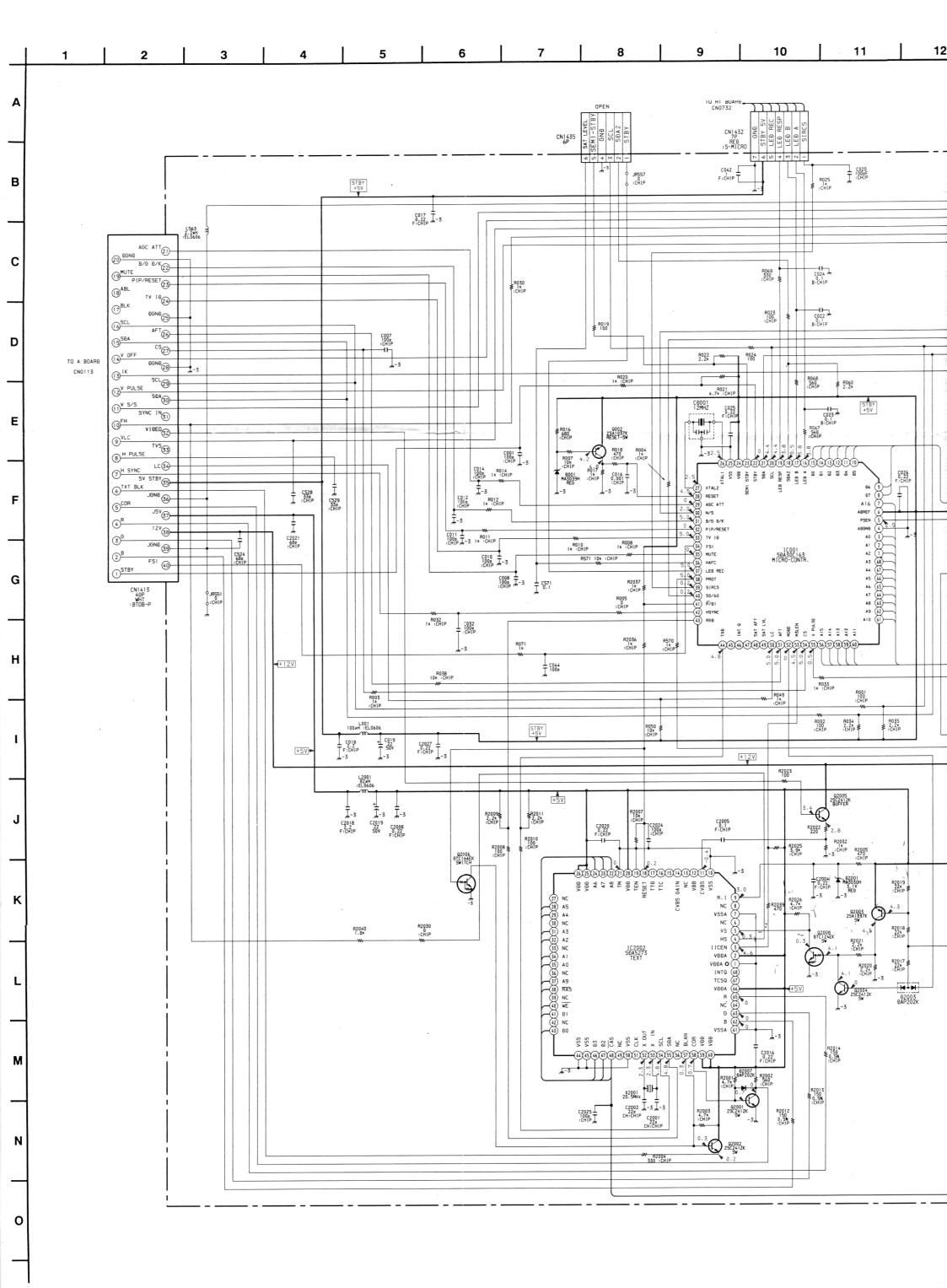


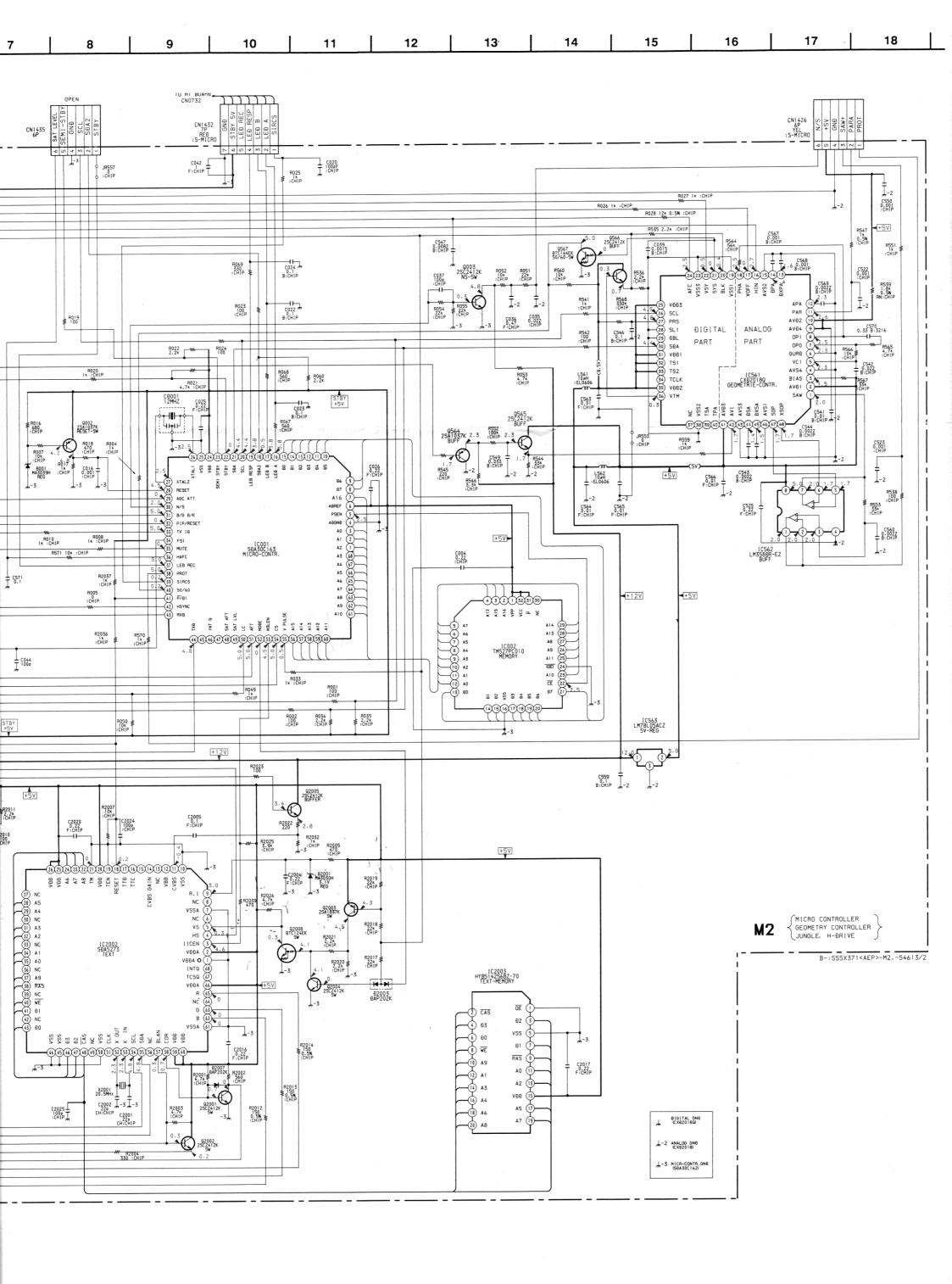


— J BOARD —

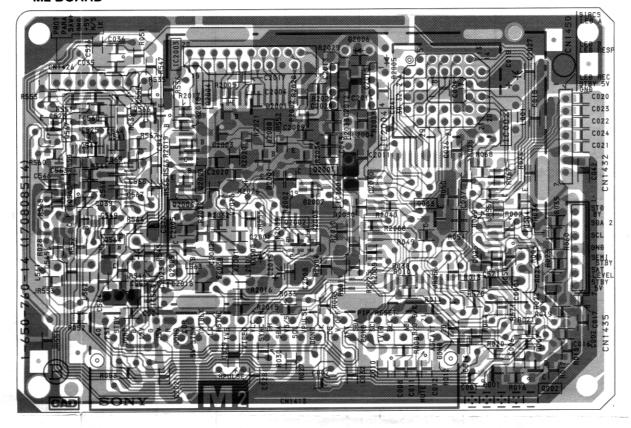


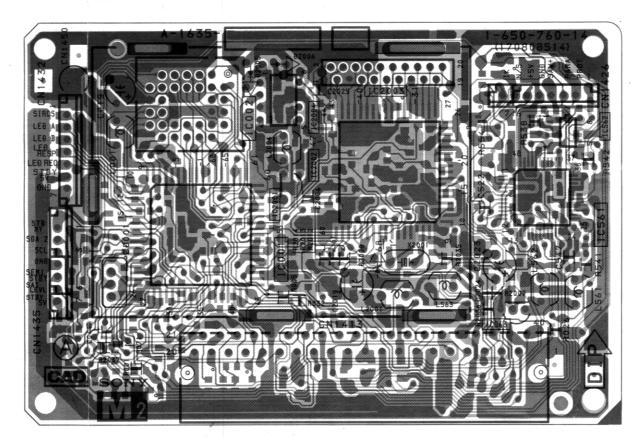
- Pattern from the side which enables seeing.
- Pattern of the rear side.





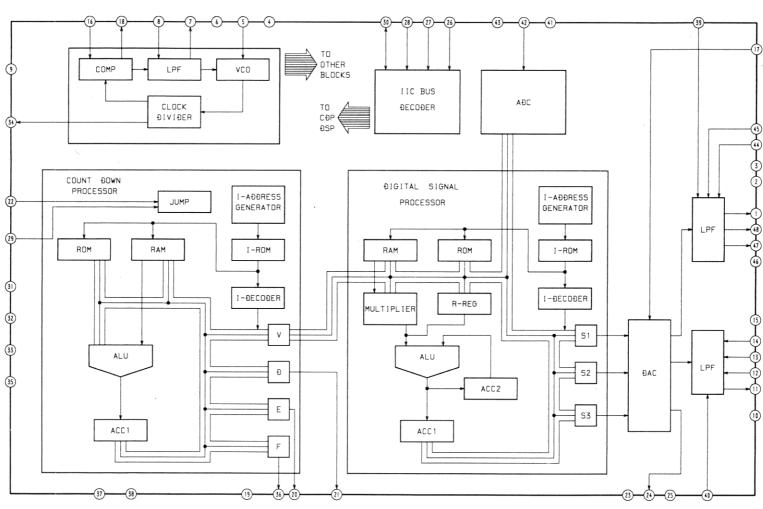
- M2 BOARD -

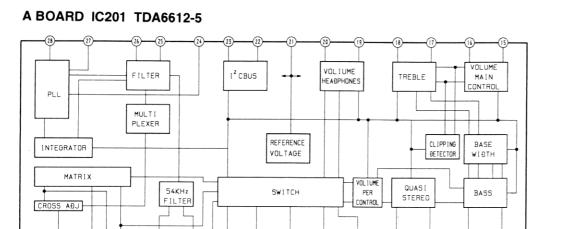




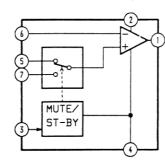
- Pattern from the side which enables seeing.
- Pattern of the rear side.

M2 BOARD IC561 CXD2018Q





A BOARD IC251, 261 TDA2052

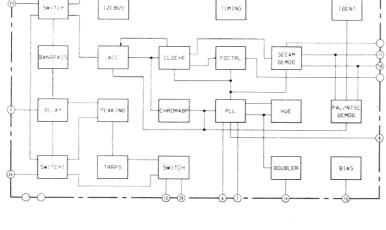


A BOARD IC301 TDA9145/N2B

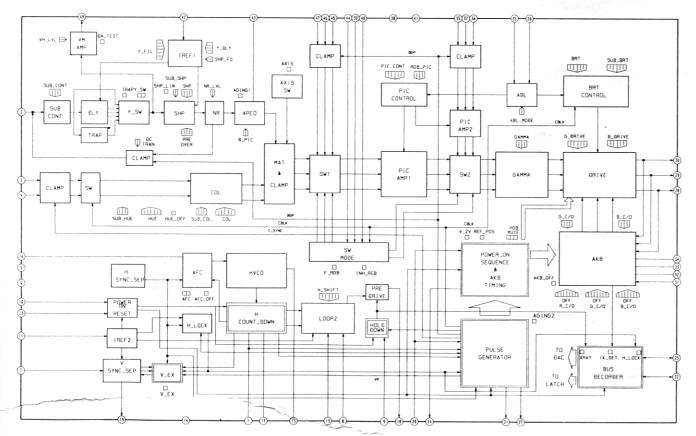
SWITCH



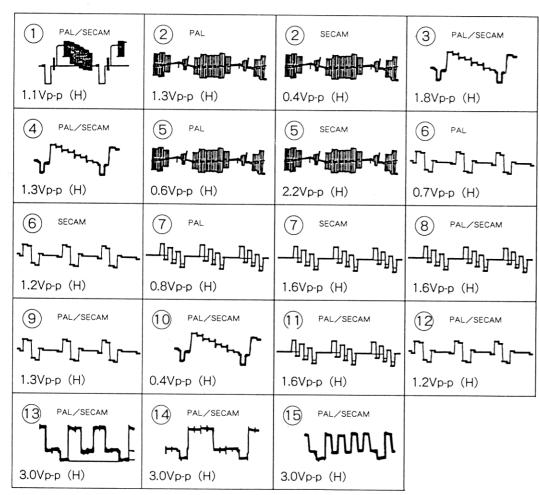




A BOARD IC304 CXA1587S



WAVEFORMS A BOARD

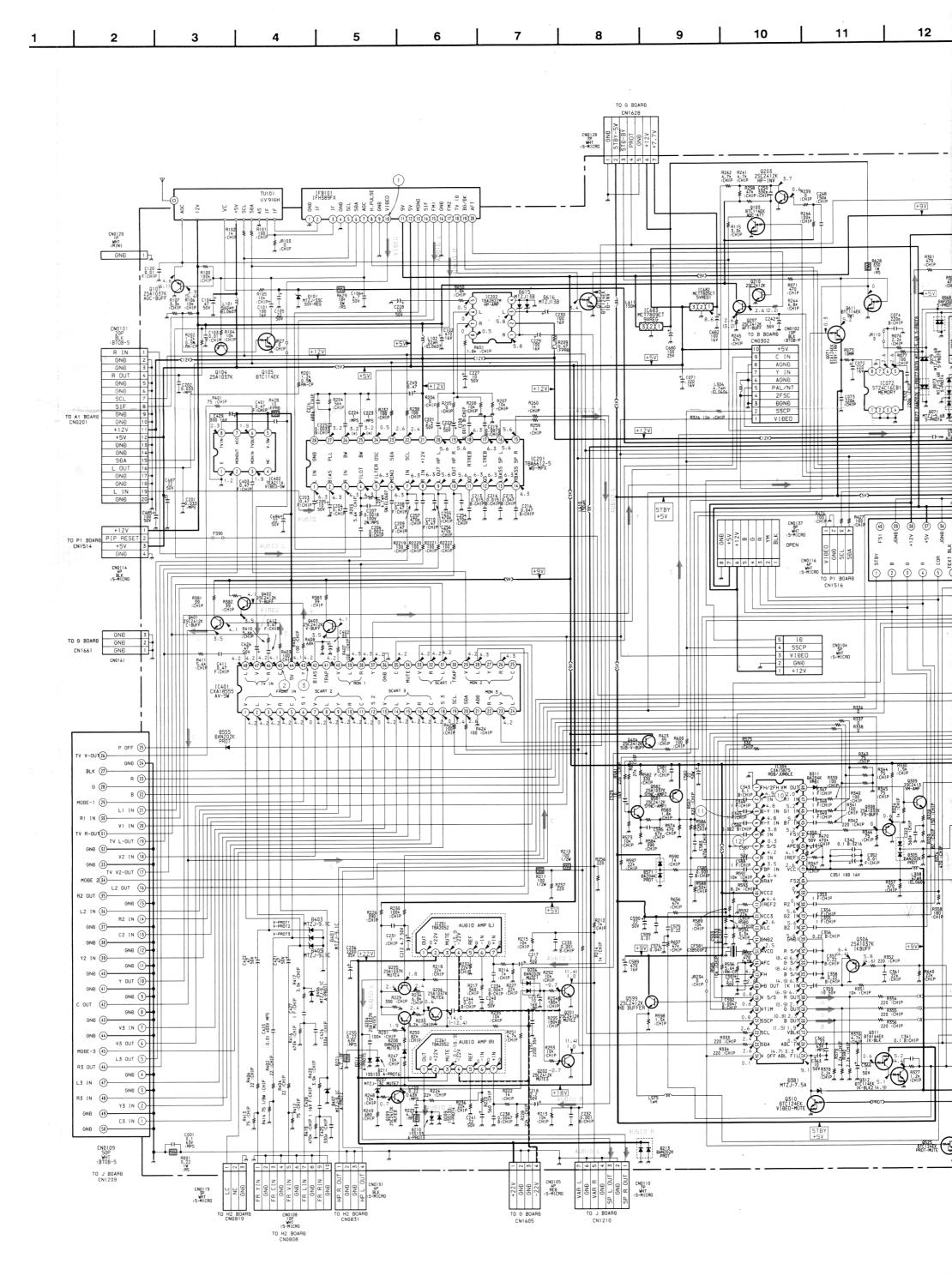


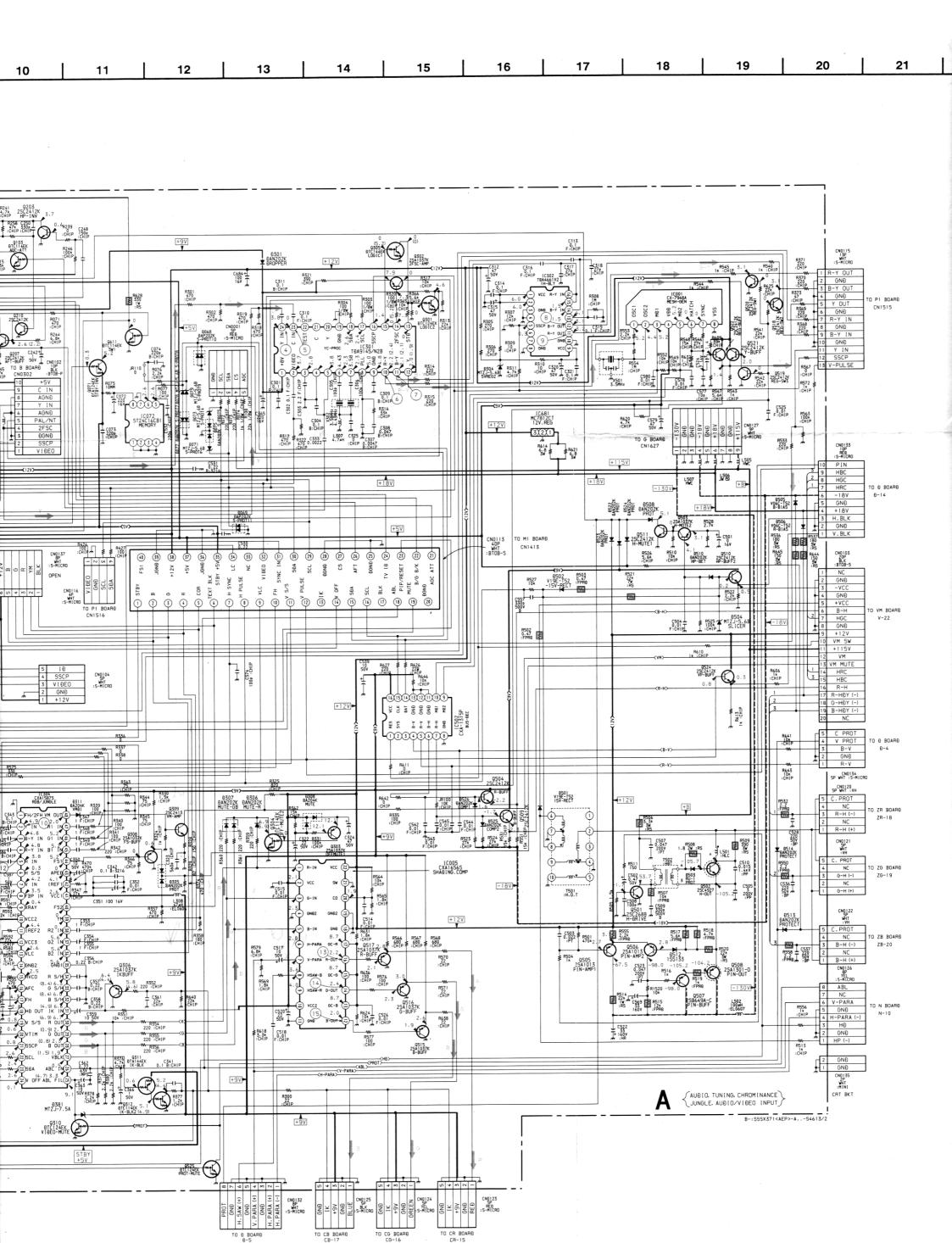
R503 0.47 :FPR0

FR501 470k₂

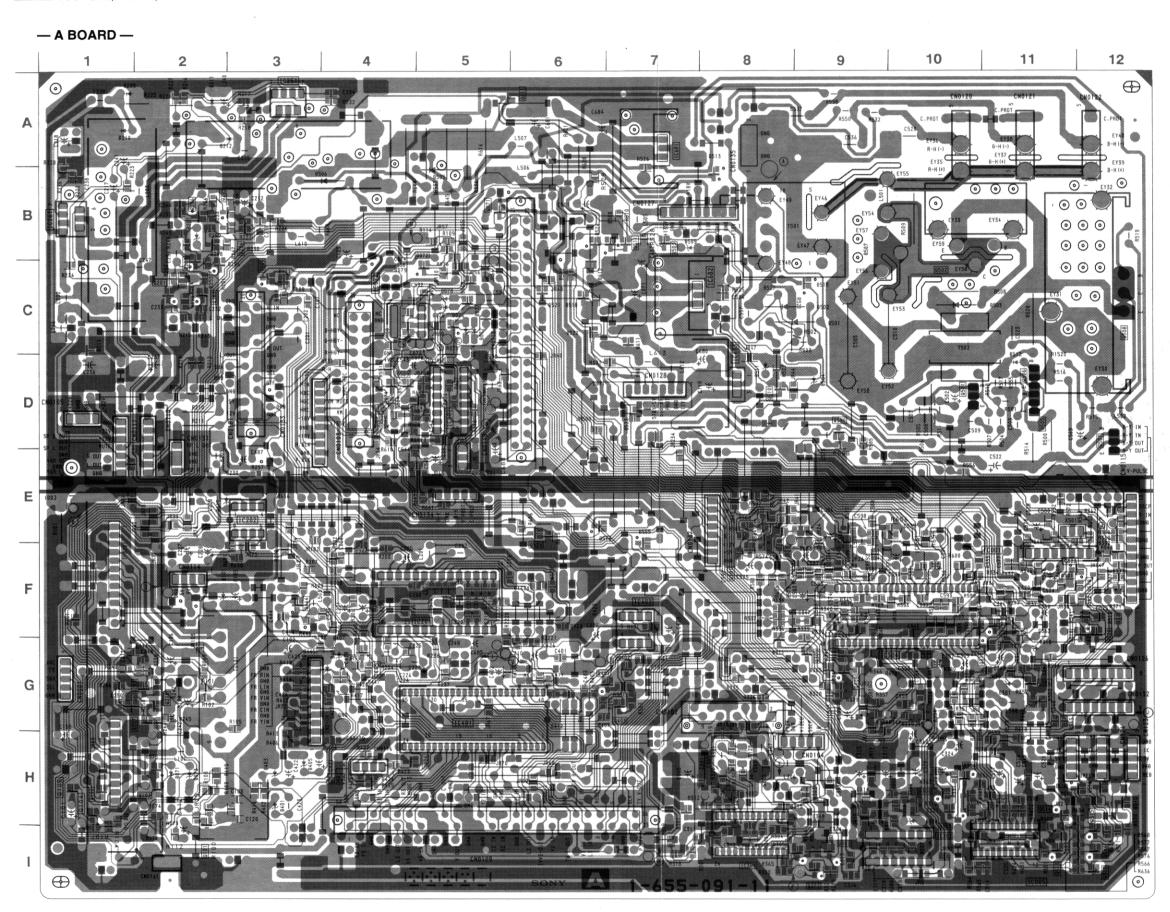
17

1







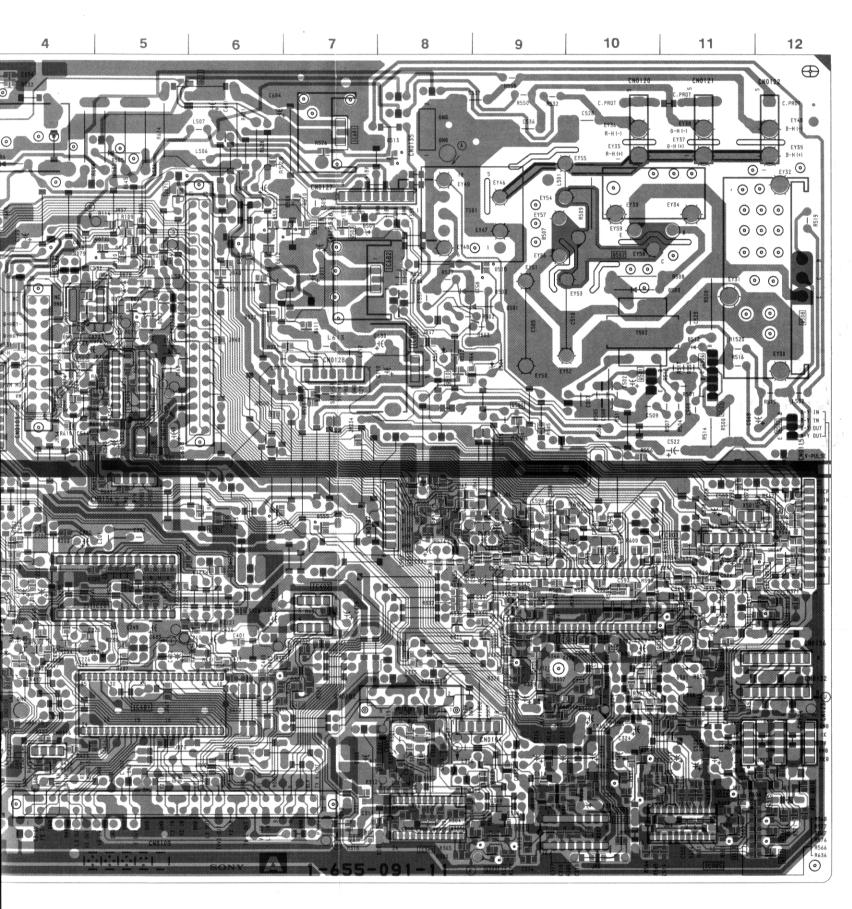


— A BOARD —

_			
	I	С	
	IC001 IC005 IC072 IC201 IC202 IC251 IC261 IC301 IC302 IC304 IC401 IC402 IC502 IC681 IC682 IC683	F-11 I-11 C-4 F-5 E-3 A-3 B-1 I-8 I-10 G-10 G-5 F-7 D-5 A-7 C-8 D-8	
	TRANS	SISTOR	
	Q071 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q209 Q210 Q301 Q301 Q302 Q303 Q304 Q305 Q306 Q308 Q308 Q309 Q310	B-5 I-2 H-1 H-2 H-1 H-1 C-2 C-2 G-2 B-3 B-2 G-2 C-2 G-2 I-9 I-9 H-10 H-10 I-9 G-11 G-9 G-11	

[:] Pattern from the side which enables

Pattern of the rear side.



— A BOARD —

7, 5 0 7, 1, 5							
IC		Q311	F-10	D208	B-2		
IC001	F-11	Q312	F-11	D209	A-1		
IC005	I-11	Q401	G-7	D210	A-1		
IC005	C-4	Q402	G-7	D211	A-2		
		Q403	G-7	D212	A-2		
IC201	F-5	Q404	H-4	D213	C-1		
IC202	E-3	Q501	D-10	D301	H-7		
IC251	A-3	Q502	C-10	D304	H-10		
IC261	B-1	Q503	B-7	D305	G-9		
IC301	I-8	Q504	D-4	D306	H-10		
IC302	I-10	Q505	D-11	D307	H-10		
IC304	G-10	Q506	D-11	D308	H-10		
IC401	G-5	Q507	D-12	D311	G-8		
IC402	F-7	Q508	C-12	D381	G-11		
IC502	D-5	Q509	D-4	D401	H-3		
IC681	A-7	Q510	D-8	D403	H-3		
IC682	C-8	Q511	B-7	D405	H-3		
IC683	D-8	Q515	I-12	D406	G-4		
		Q516	I-12	D407	G-4		
TRANS	ISTOR	Q517	I-12	D501	C-9		
0074		Q518	F-12	D502	C-9		
Q071	B-5	Q519	F-12	D502	C-10		
Q101	I-2	Q519 Q520	F-12	D503	D-9		
Q102	H-1	Q520 Q521	F-12	D504	B-5		
Q103	H-2	Q521 Q522	F-12	D505	B-3		
Q104	H-1		F-12 F-6		B-7		
Q105	H-1	Q524		D508			
Q201	C-2	Q525	F-11	D510	C-9		
Q202	C-2	Q581	F-8	D512	D-11		
Q203	G-2	Q582	E-8	D513	A-8		
Q204	B-3	Q599	D-9	D514	E-6		
Q205	B-2	Q611	A-6	D522	C-6		
Q206	B-2	DIC	NDE	D523	D-7		
Q207	G-2	DIC	,DE	D524	B-6		
Q209	C-2	D068	C-5	D525	D-4		
Q210	G-2	D069	G-2	D526	D-4		
Q301	1-9	D071	H-2	D555	E-7		
Q302	1-9	D073	H-2	D571	E-9		
Q303	H-10	D075	H-2	D615	E-2		
Q304	H-10	D073	C-5	D616	E-3		
Q305	1-9	D077	C-5				
Q306	G-11	D078	C-5				
Q308	G-11	D101	F-2				
	G-9 G-9	1					
Q309	G-9 G-11	D206	C-2				
Q310	G-11	D207	B-2				

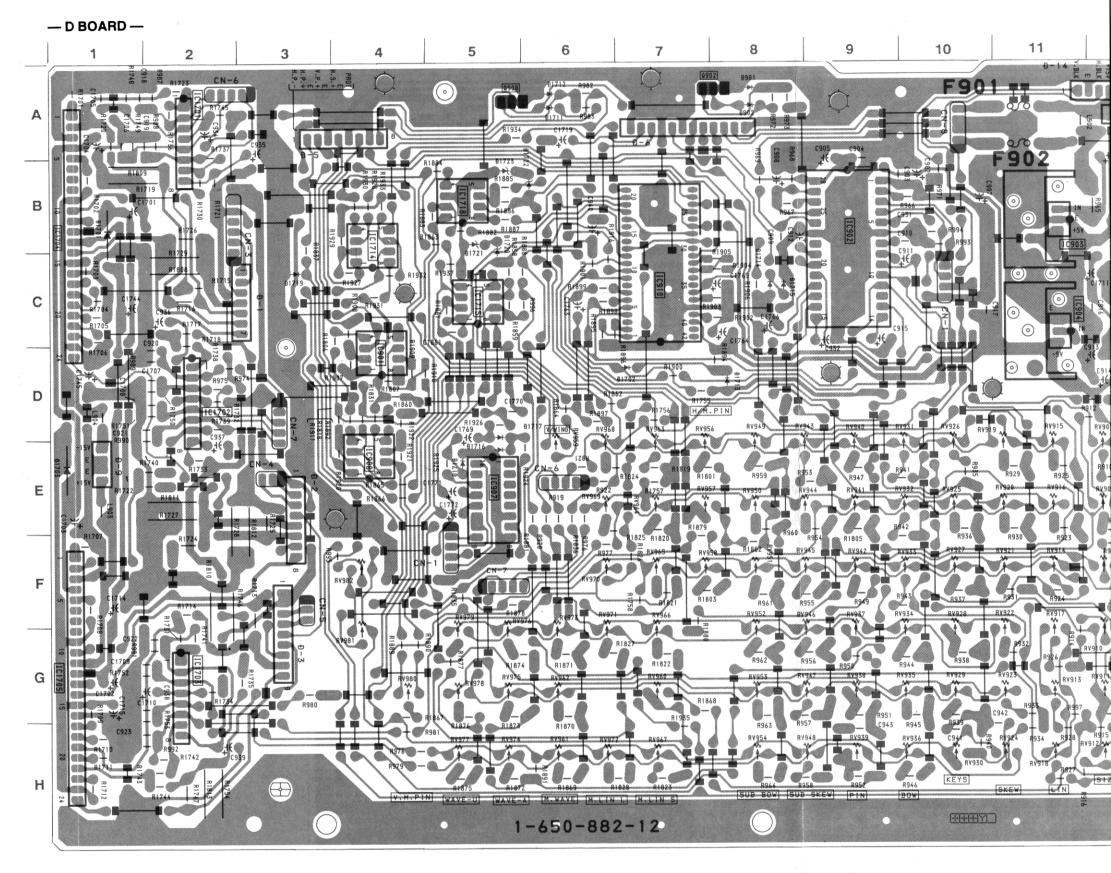
[•] Pattern from the side which enables seeing.

[•] Pattern of the rear side.

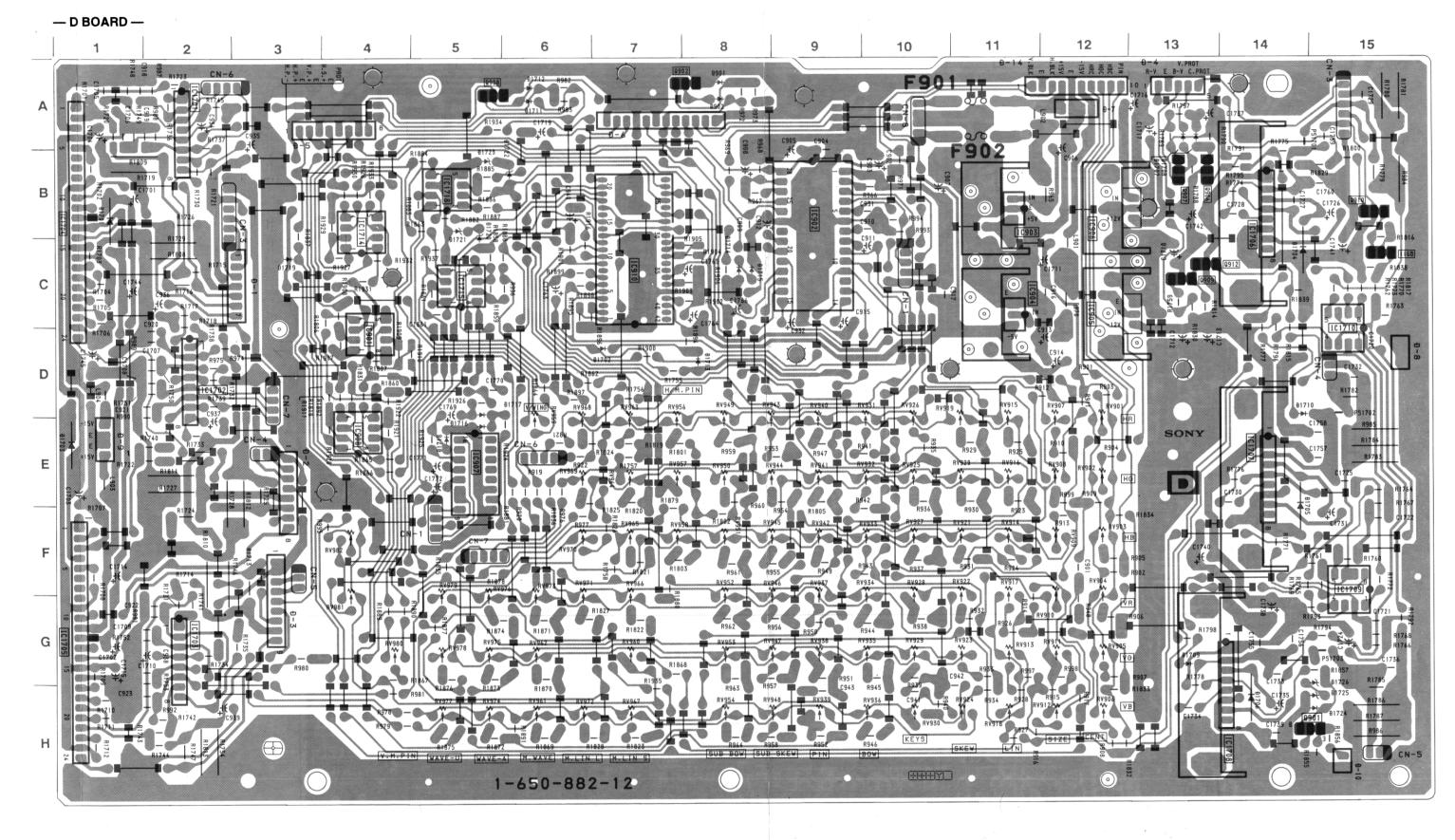
REGISTRATION, DEFLECTION, V-OUT, SUB-OUT

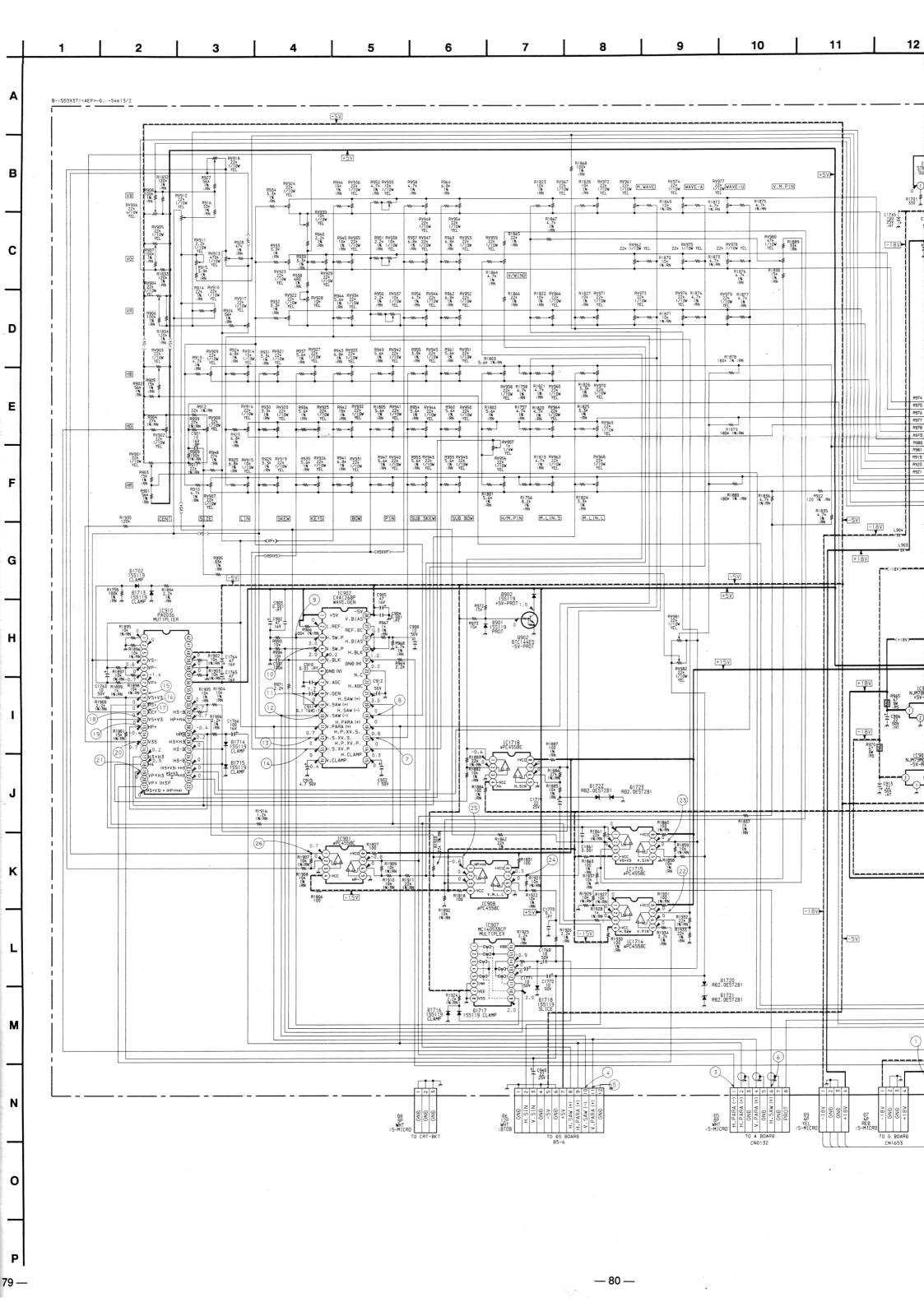
— D BOARD —

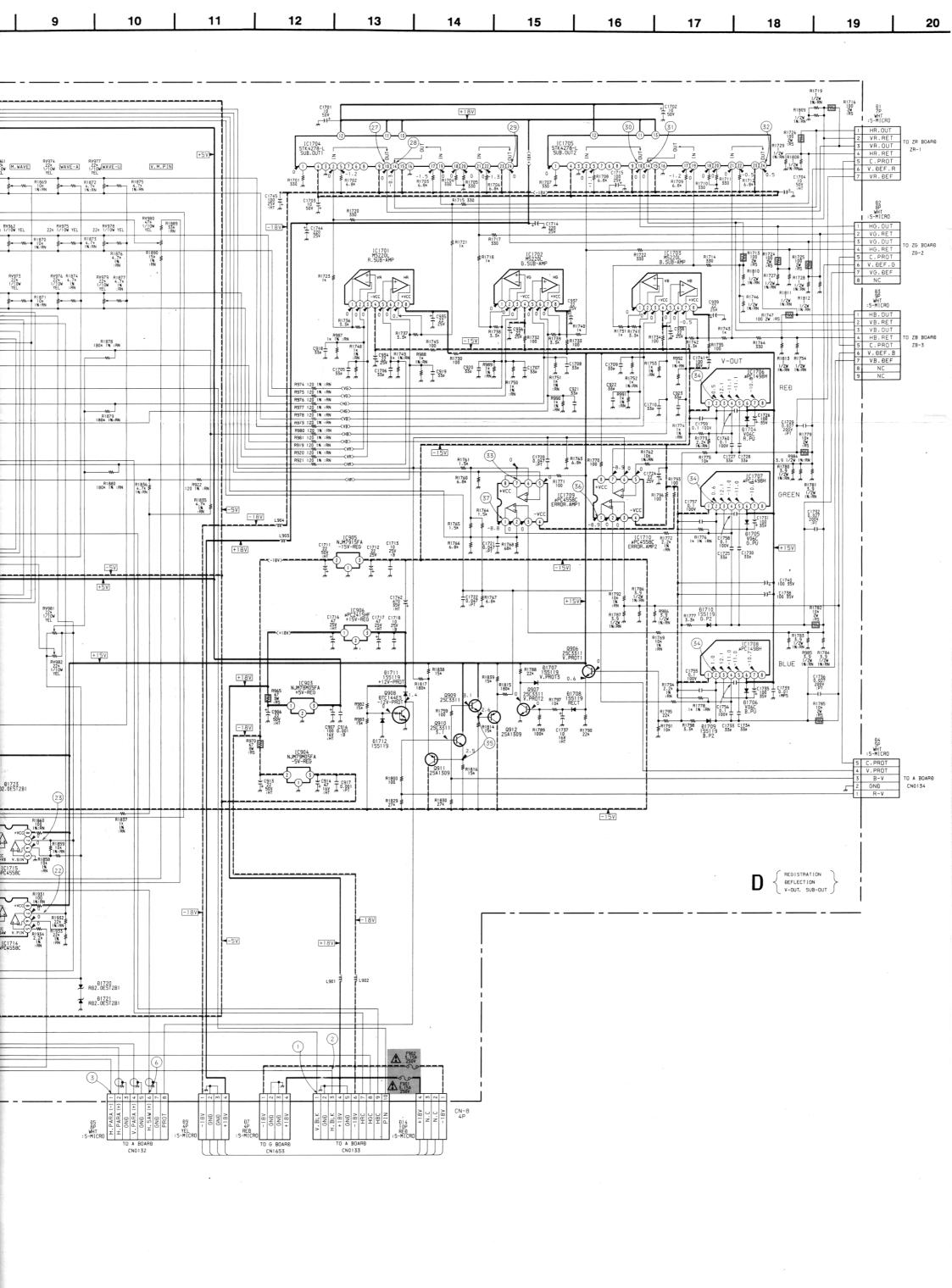
Γ	IC		D1712	A-6	RV934	F-10
\vdash			D1713	D-8	RV935	G-10
١	IC901	D-4	D1714	C-8	RV936	H-10
١	IC902	B-9	D1715	C-8	RV937	F-9
١	IC903	B-11	D1716	E-5	RV938	G-9
ı	IC904	C-11	D1717	D-5	RV939	H-9
L	IC905	C-12	D1718	E-5	RV940	D-9
١	IC906	B-12	D1720	B-5	RV941	E-9
١	IC907	E-5	D1721	B-5	RV942	F-9
١	IC908	E-4	D1722	B-6	RV943	D-9
١	IC910	C-7	D1723	B-5	RV944	E-9
١	IC1701	A-2	N/ADIA	D. E	RV945	F-9
1	IC1702	D-2	VARIA RESIS		RV946	F-9
1	IC1703	G-2	NESIS	TON,	RV947	G-9
١	IC1704	B-2	RV901	D-12	RV948	H-9
١	IC1705	G-1	RV902	E-12	RV949	D-8
١	IC1706	C-14	RV903	F-12	RV950	E-8
1	IC1707	E-14	RV904	F-12	RV951	F-8
١	IC1708	H-14	RV905	G-12	RV952	F-8
١	IC1709	F-15	RV906	H-12	RV953	G-8
١	IC1710	D-15	RV907	D-12	RV954	H-8
١	IC1714	B-4	RV908	E-12	RV956	D-7
١	IC1715	C-5	RV909	F-12	RV957	E-7
1	IC1718	B-5	RV910	G-12	RV958	F-7
t	TDANIC	CTOD	RV911	G-12	RV959	D-6
L	TRANS	1510H	RV912	H-12	RV961	H-6
١	Q902	A-7	RV913	G-11	RV962	G-6
-1	Q906	B-13	RV914	F-11	RV963	D-7
١	Q907	B-13	RV915	D-11	RV964	E-7
١	Q908	A-5	RV916	E-11	RV965	F-7
١	Q909	C-13	RV917	F-12	RV966	F-7
	Q910	B-15	RV918	H-11	RV967	H-7
١	Q911	C-15	RV919	D-11	RV968	D-6
١	Q912	C-14	RV920	E-11	RV969	E-6
١			RV921	F-11	RV970	F-6
١	DIO	DE	RV922	F-11	RV971	F-6
ł			RV923	G-11	RV972	H-6
- 1	D901	A-8	RV924	H-11	RV973	F-6
Į	D902	A-8	RV925	E-10	RV974	H-5
١	D1702	D-7	RV926	D-10	RV975	G-5
	D1704	C-14	RV927	F-10	RV976	F-5
	D1705	F-14	RV928	F-10	RV977	H-5
	D1706	H-14	RV929	G-10	RV978	G-5
	D1707	A-13	RV930	H-10	RV979	F-5
	D1708	A-13	RV931	D-10	RV980	G-4
	D1709	G-13	RV932	E-10	RV981	G-4
	D1710	D-14	RV933	F-10	RV982	F-4
	D1711	A-6		_		

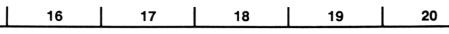




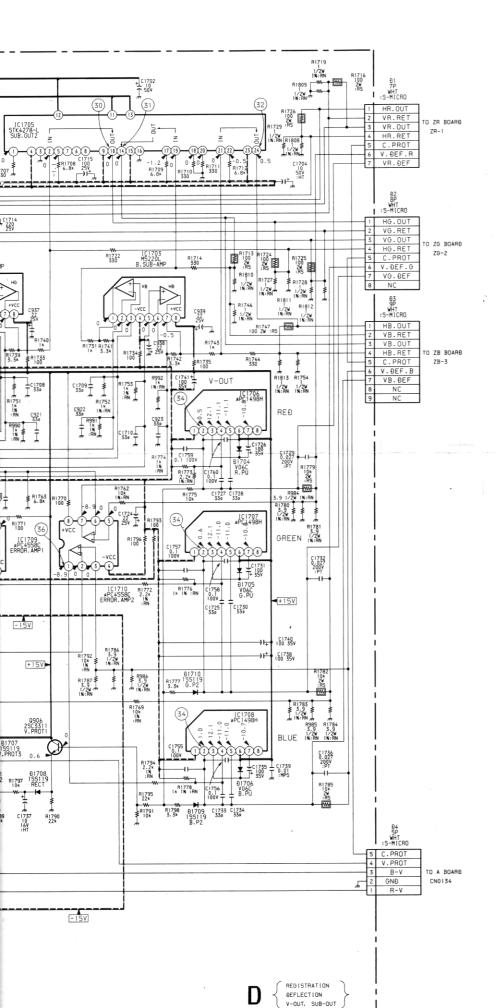


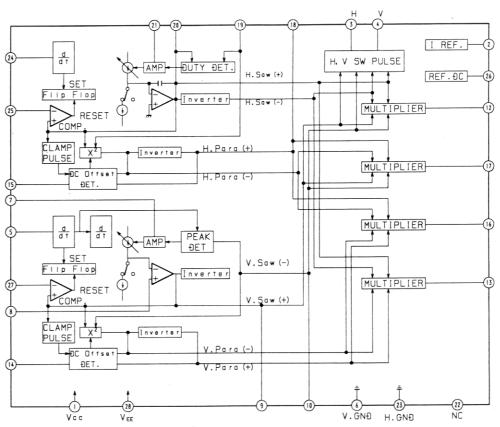


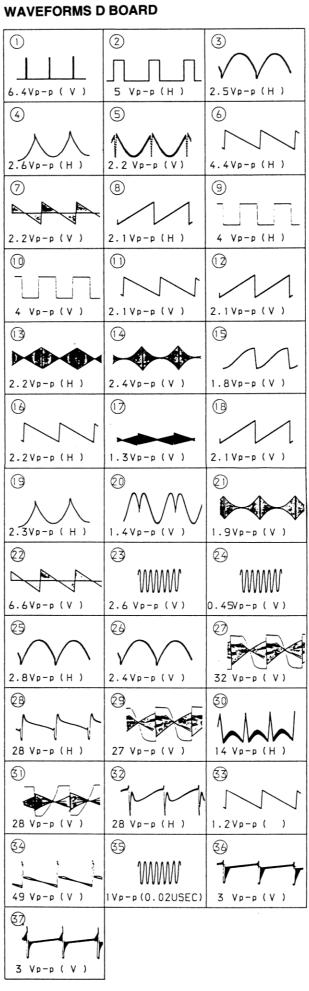


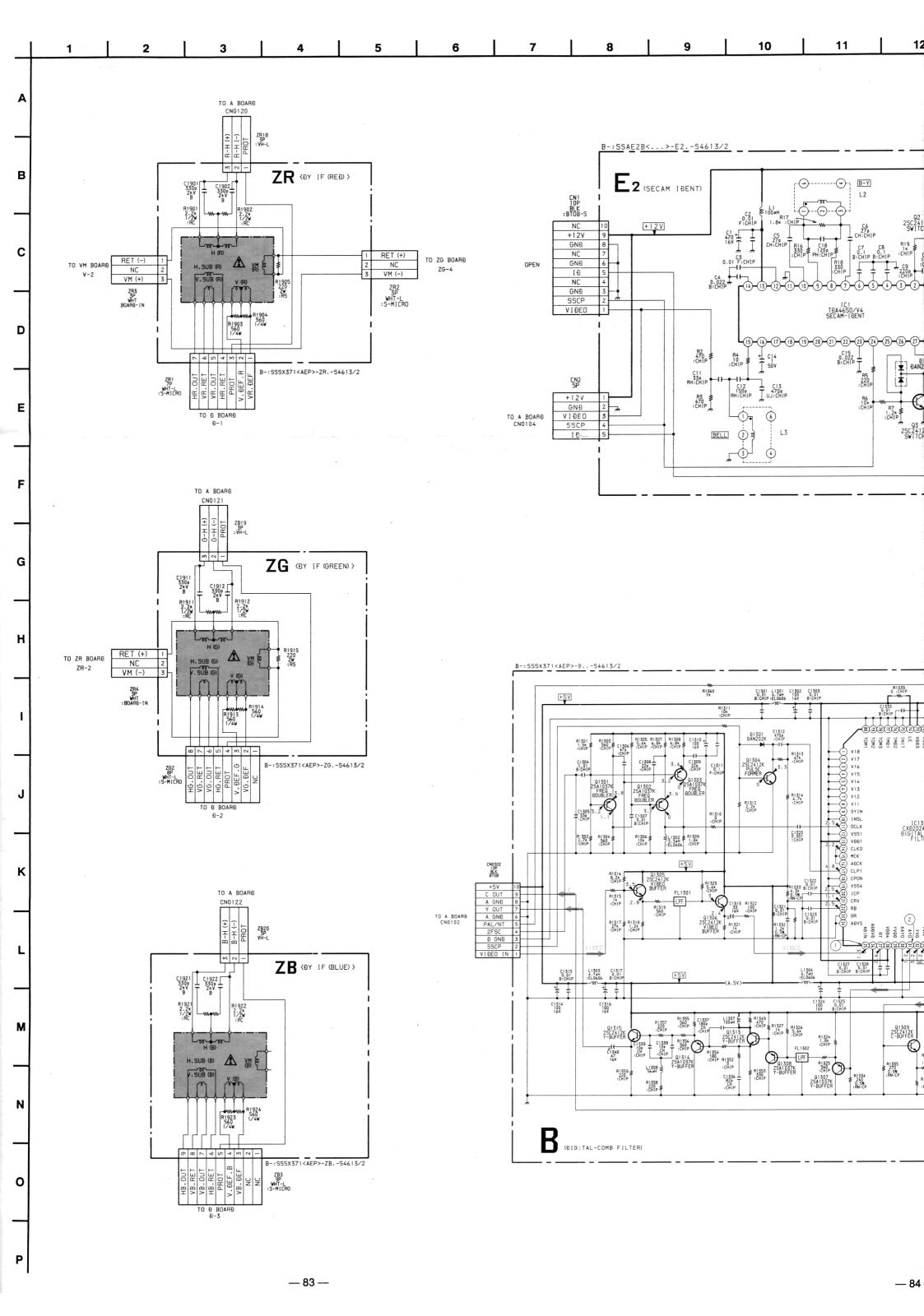


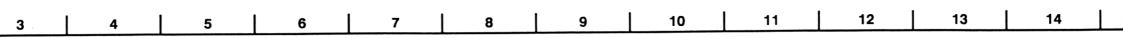
D BOARD IC902 CXA1268P

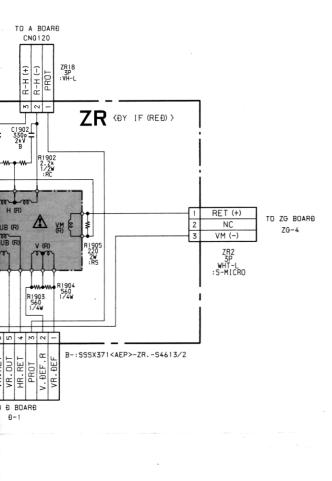


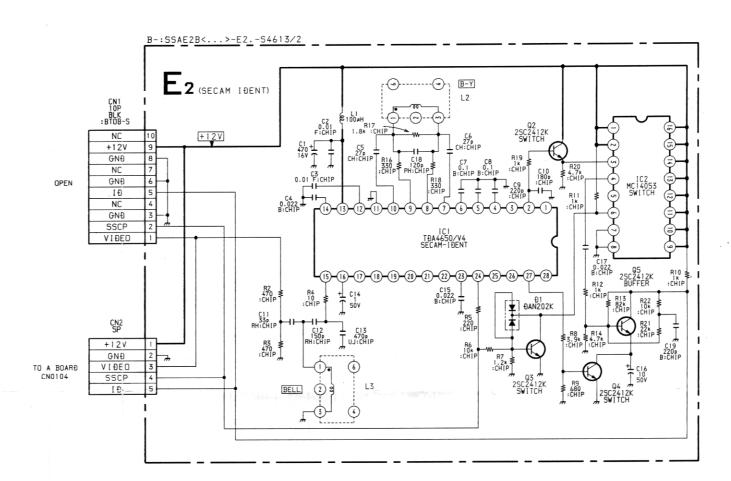


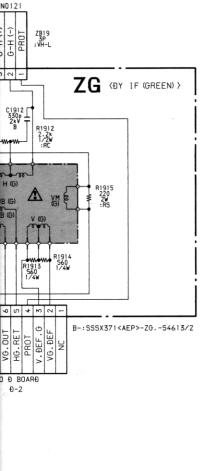






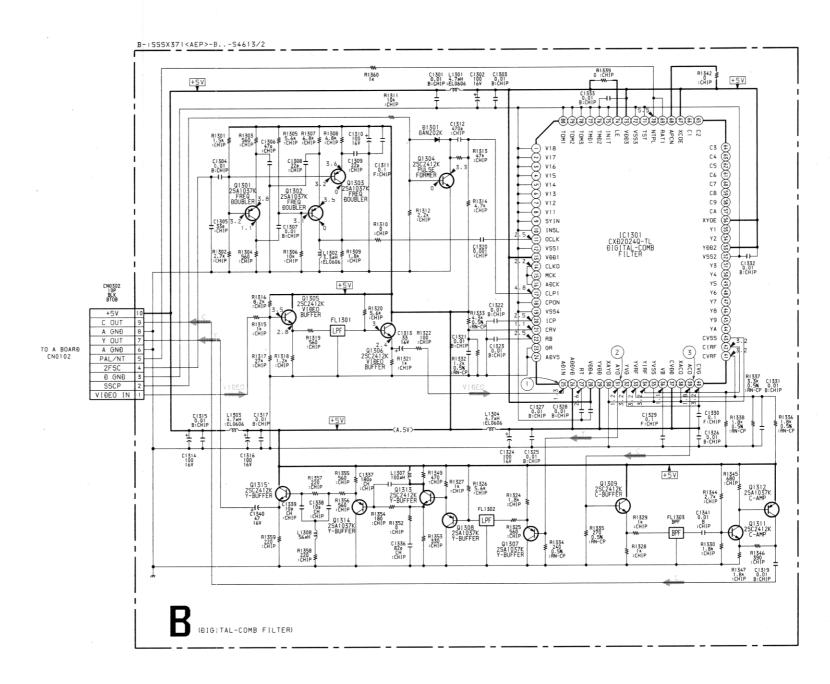






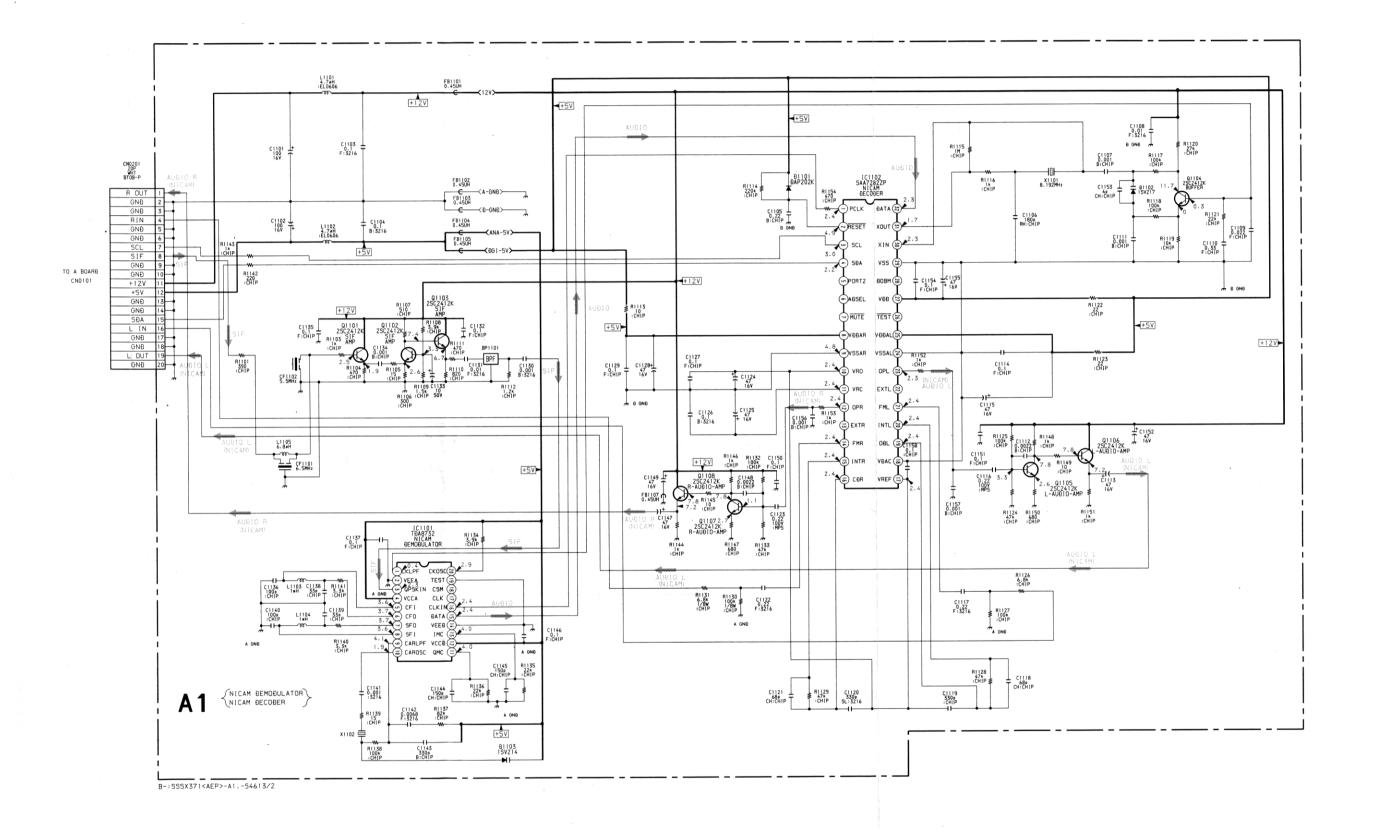
ZB (BY IF (BLUE))

TO A BOARE



B-:SSSX371<AEP>-ZB.-S4613/2

ZB3 9P WHT-L :S-MICRO



KP-S4613/2

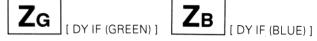
KP-S4613/2





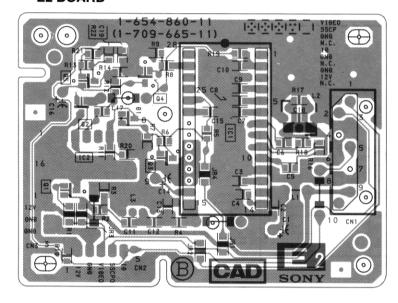




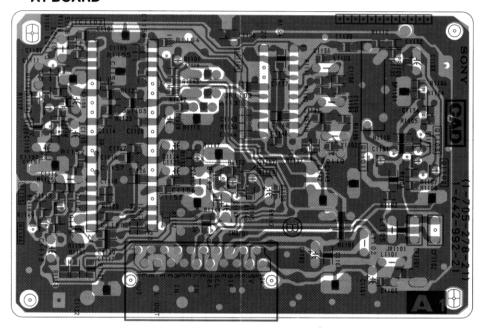




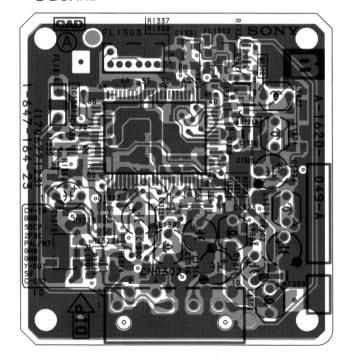
— E2 BOARD —

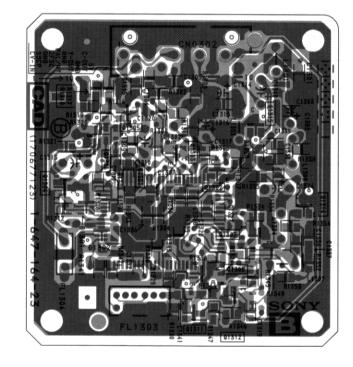


- A1 BOARD -



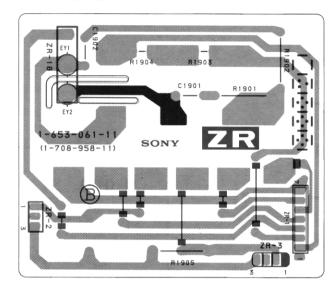
— B BOARD —



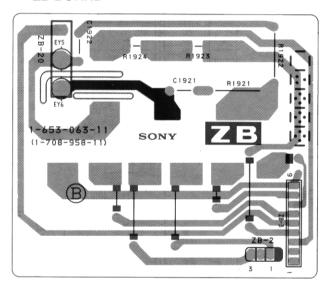


- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

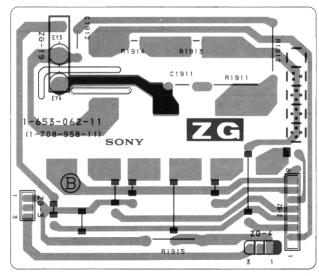
— ZR BOARD —

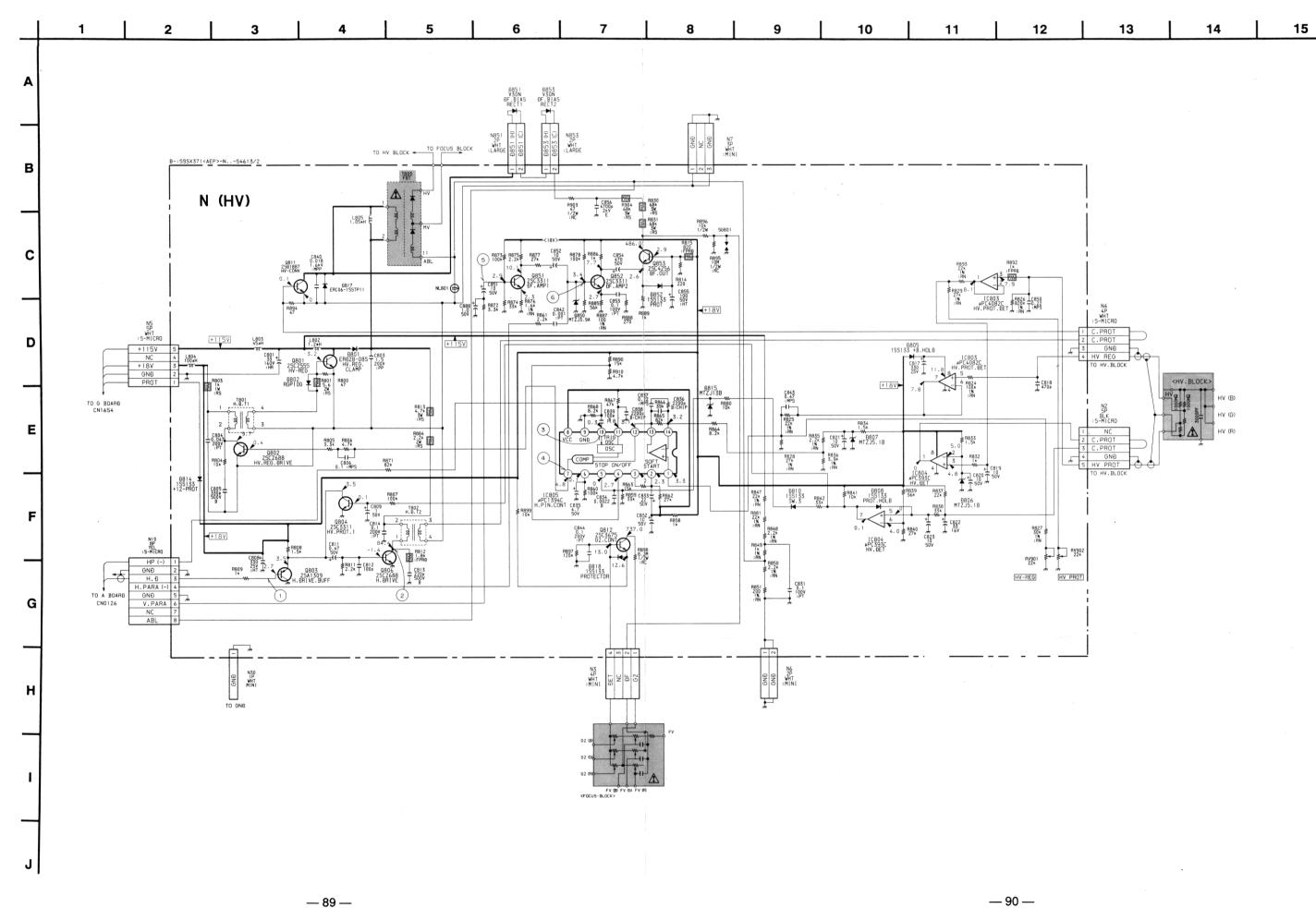


- ZB BOARD -



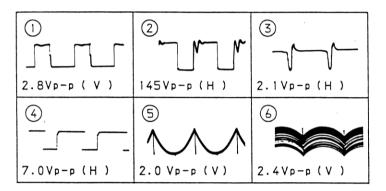
- ZG BOARD -



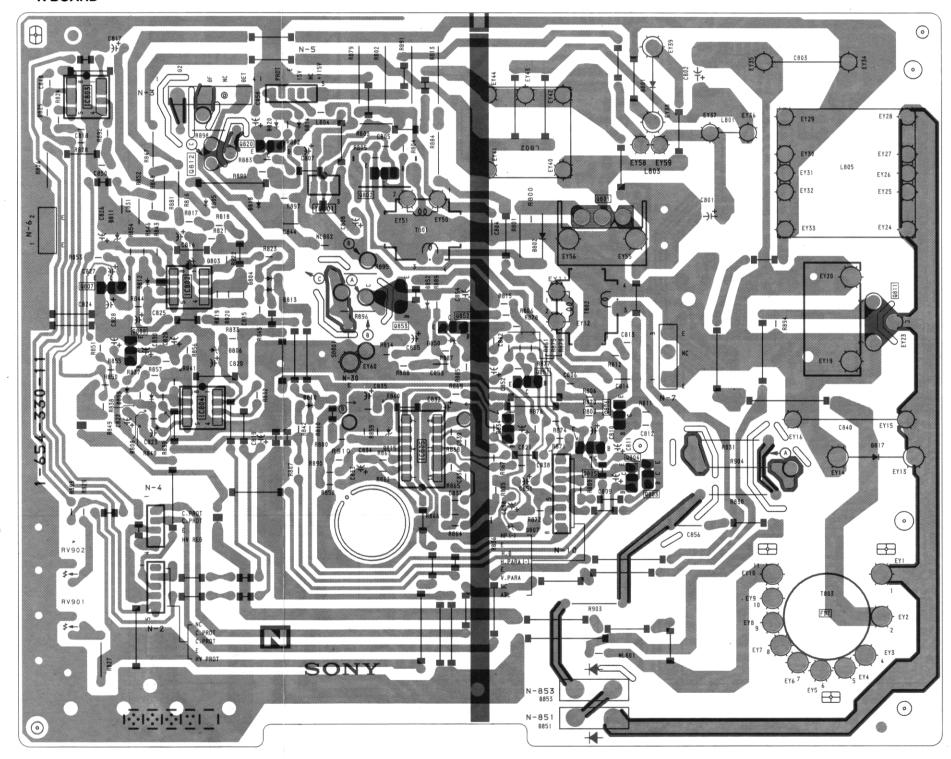




WAVEFORMS N BOARD



- N BOARD -

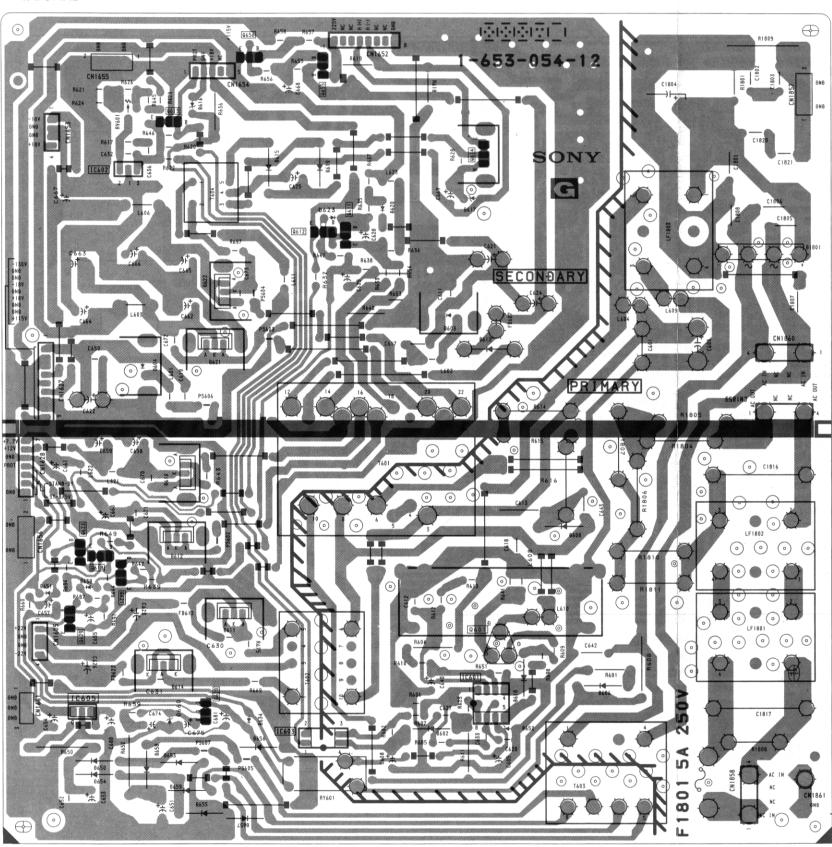




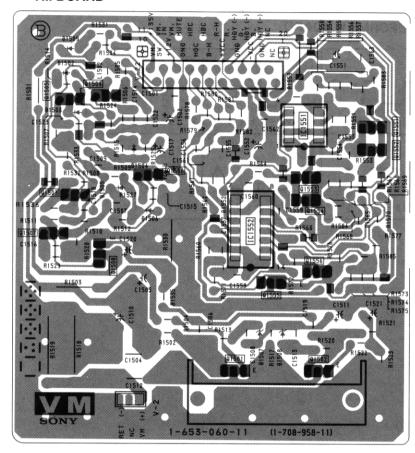




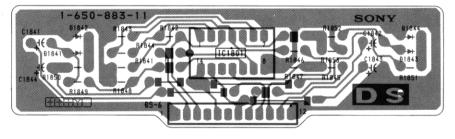
— G BOARD —

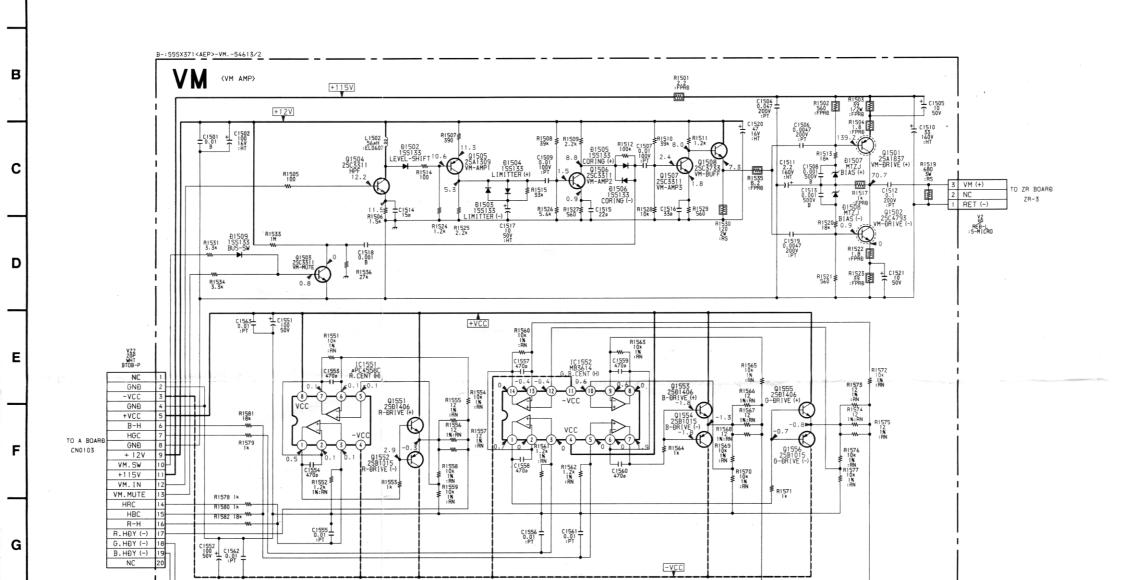


- VM BOARD -



- DS BOARD -

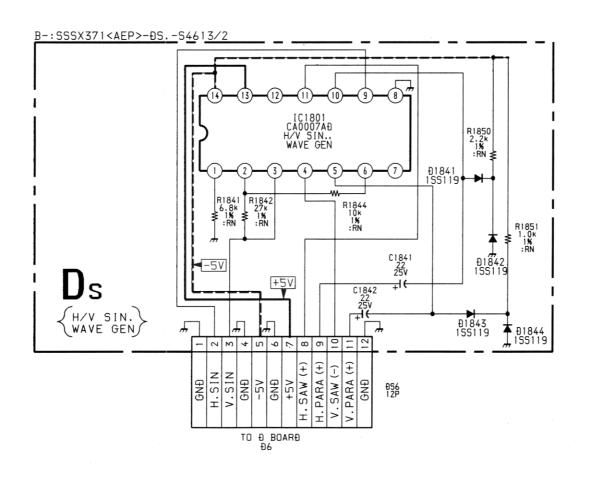


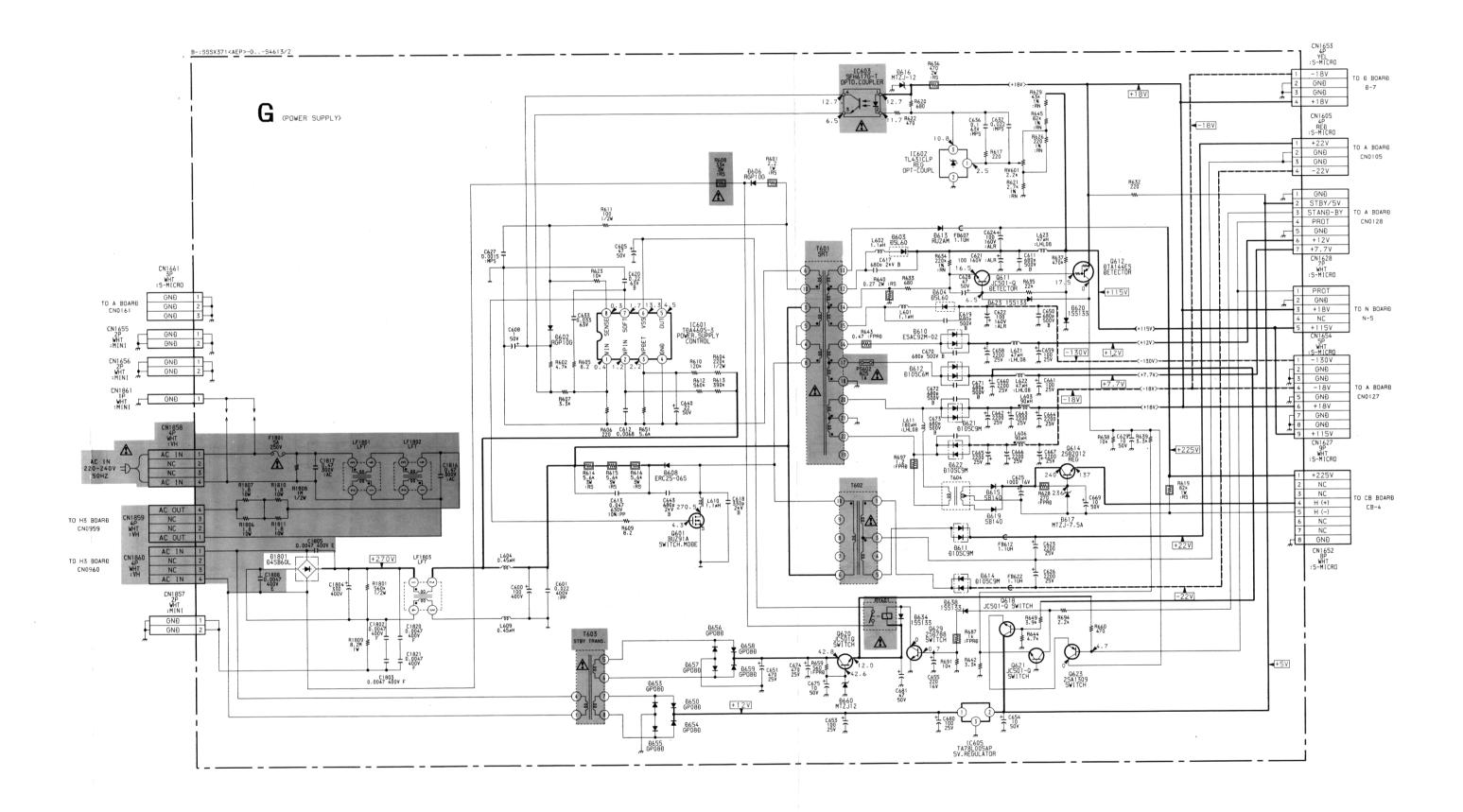


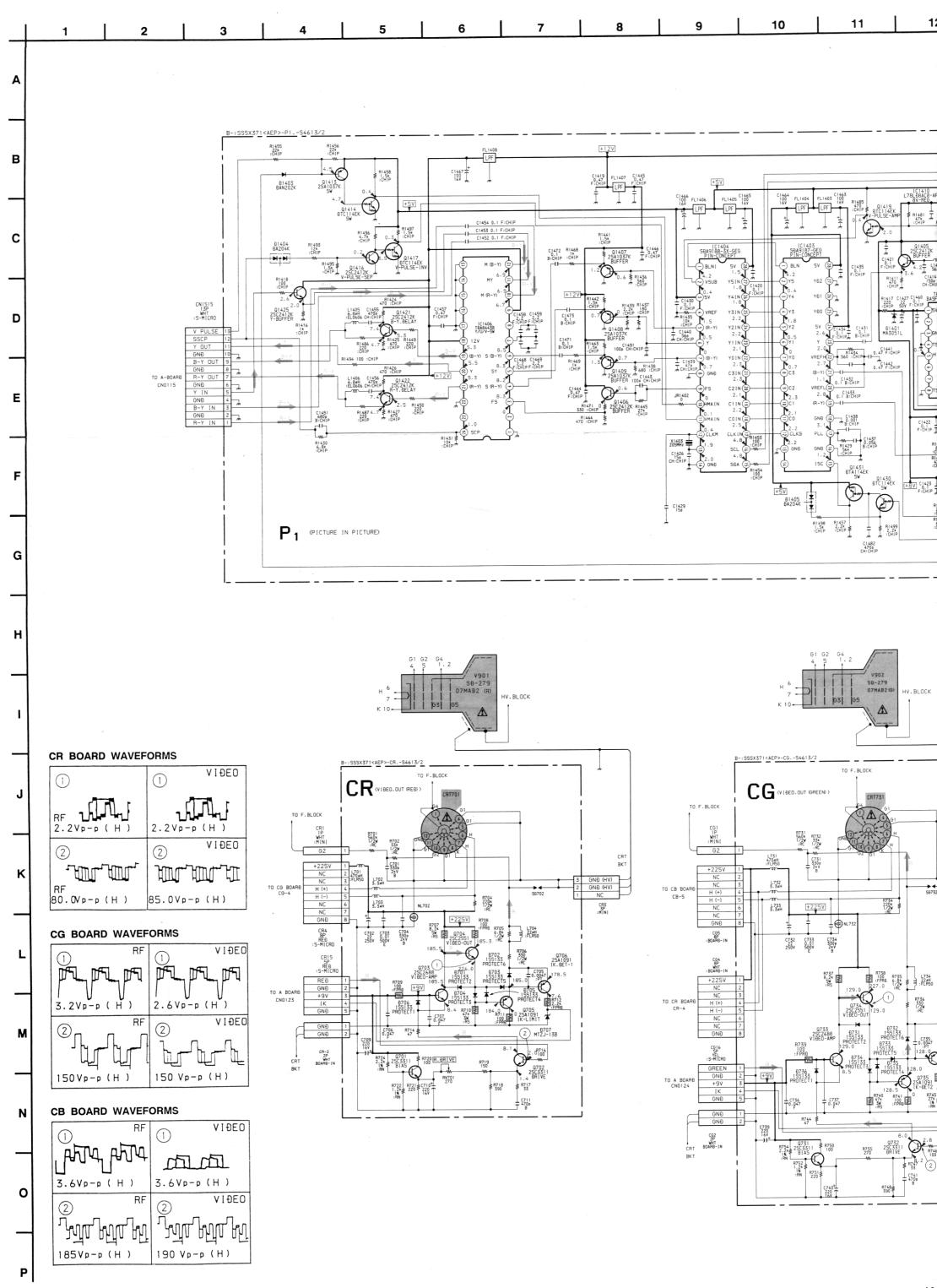
Α

M

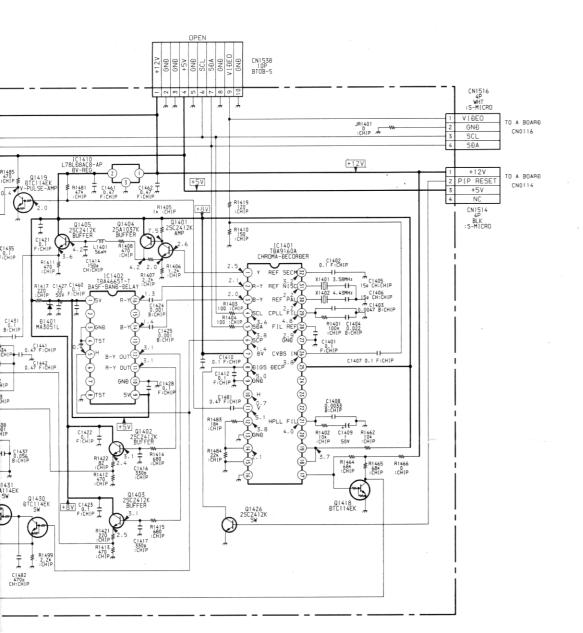
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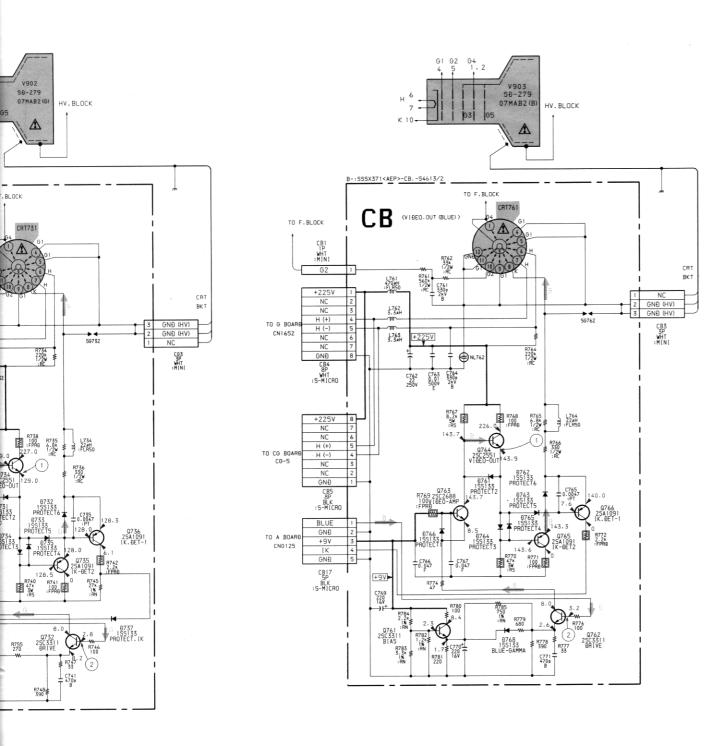






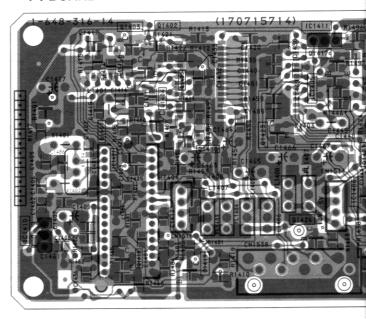


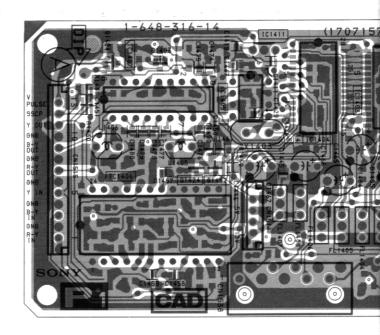




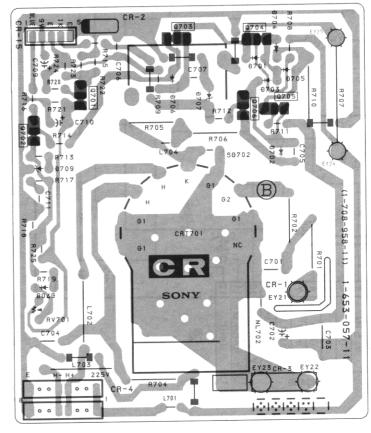


— P1 BOARD —





— CR BOARD —





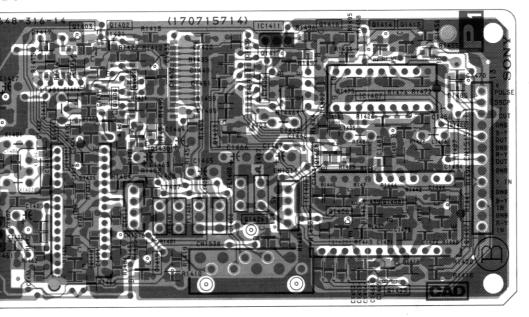


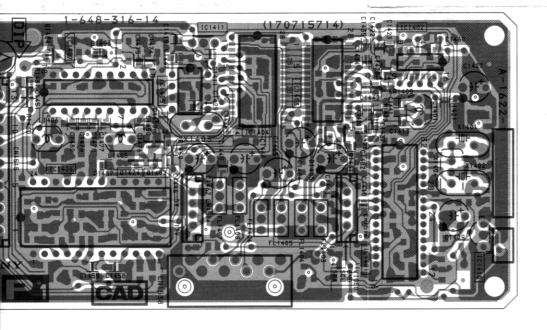




CB [VIDEO.OUT (BLUE)]

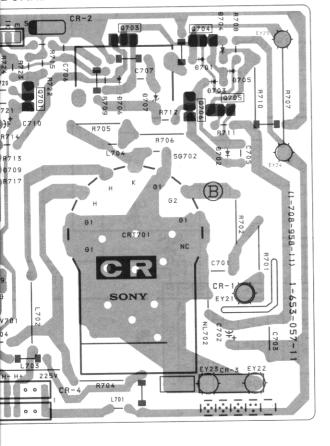
BOARD —



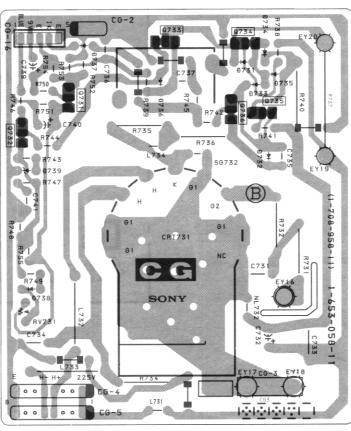


- Pattern from the side which enables seeing.
- : Pattern of the rear side.

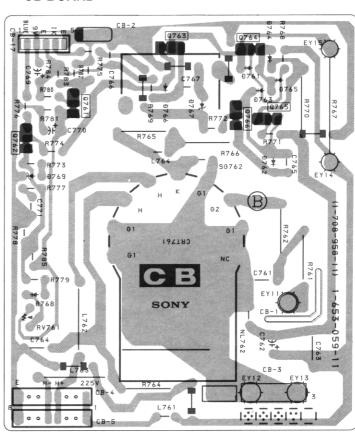
BOARD —

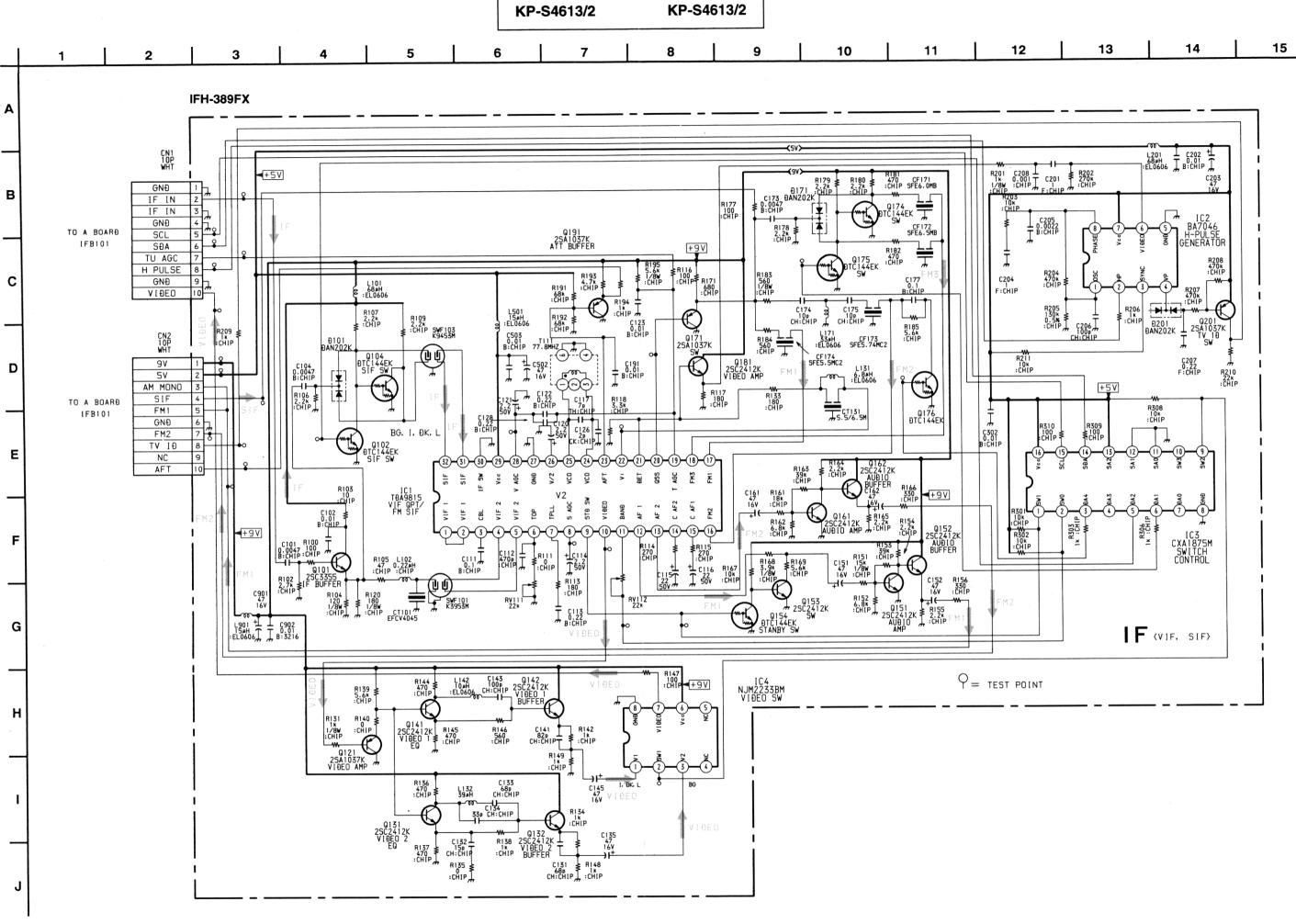


- CG BOARD -



- CB BOARD -

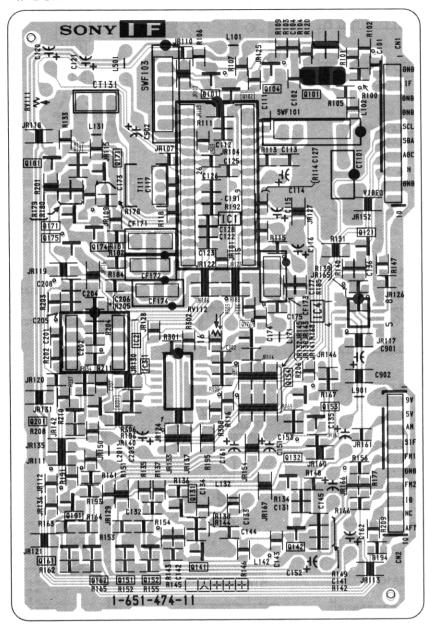


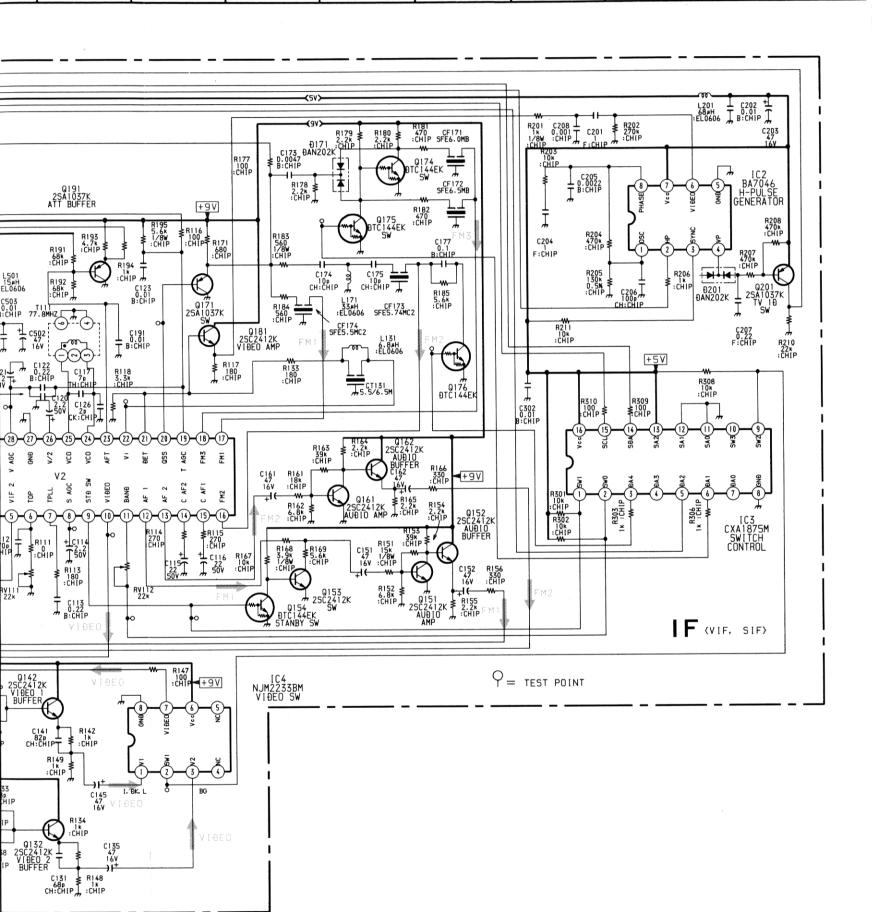


8

[VIF, SIF]







10

11

13

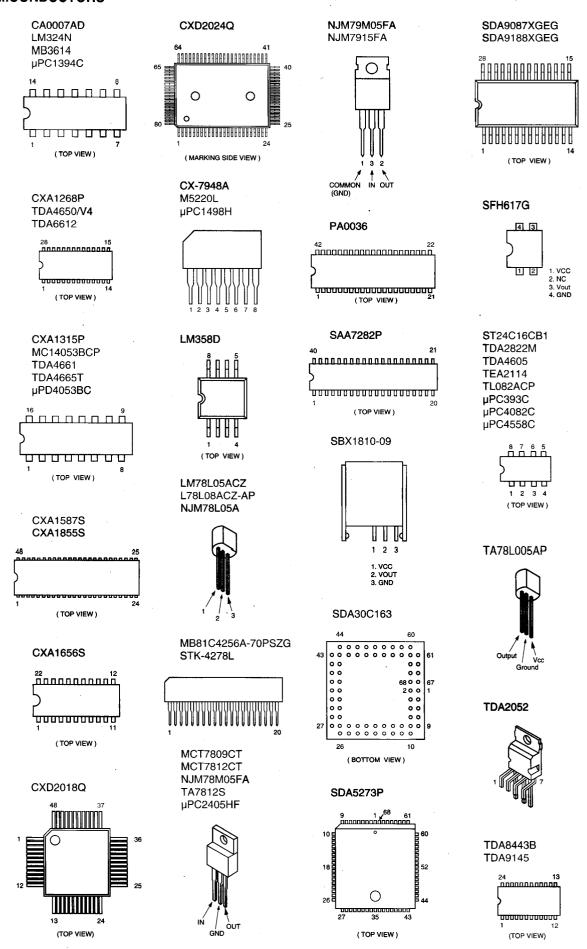
12

14

15

— 105 —

5-4. SEMICONDUCTORS

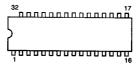


TDA8732



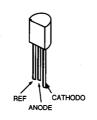
(TOP VIEW)

TDA9160A

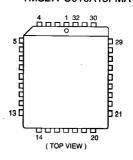


(TOP VIEW)

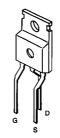
TL431CLP



TMS27PC010A15FMA



BUZ91A-E3155



DTA124EK DTA144EK DTC114EK DTC124EK

2SA1037K 2SA1162-G 2SC2412K 2SC1623-L5L6 DTC144EK 2SC2413K



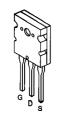
DTA144ES DTC144ES



JC501 2SA1013-O 2SA1091-O 2SA1837 2SC2551-O 2SD788-5



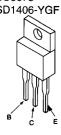
2SA1301-O



2SA1309A-Q 2SA1175-HFE 2SC2785-HFE 2SC3311A-QRS



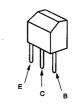
2SB1015 2SB1094-LK 2SC3675 2SD1406-YGF



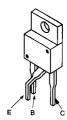
2SB649A-C 2SC2688-LK



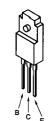
2SC3733



2SC4256CB 2SC4632-CB7



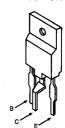
2SC4793



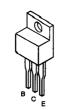
2SC4927



2SD1887-CA



2SD2012



DAN202K





DAP202K

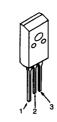




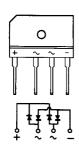
DA204K **1SS226**

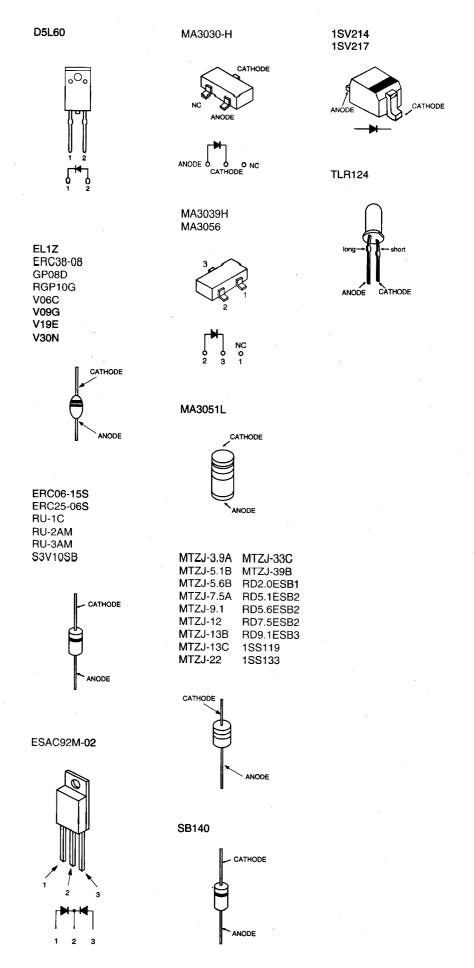


D10SC6M D10SC9M



D4SB60L





SECTION 6

EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they
 are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked $\frac{1}{2}$ are critical for safety.

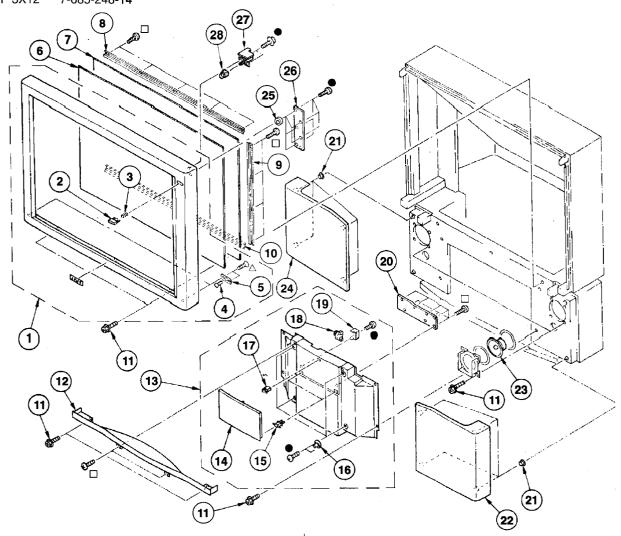
Replace only with the part number specified.

6-1. CONTROL PANEL

●: BVTP 3X12 7-685-648-79

: BVTP 4X12 7-685-661-**79**

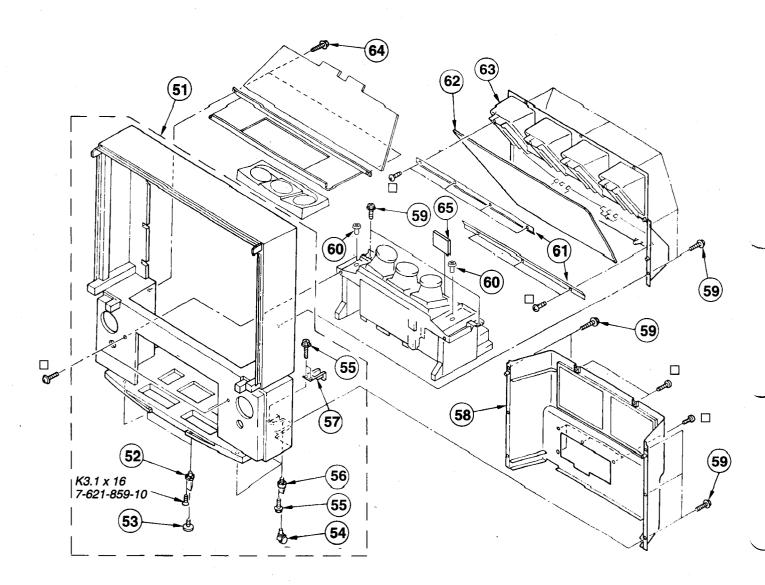
△: KTP 3X12 7-685-248-14



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	X-4030-609-1	FRAME ASSY, SCREEN	2-5	15	3-703-035-12	SHAFT, LID	
2	4-037-635-01	BUTTON, POWER		16	4-843-806-00	STRIKE	
3	3-308-717-00	SPRING, COMPRESSION		17	4-392-036-01	CATCHER, PUSH	
4	4-838-452-00	STRIKE		18	3-721-204-21	DAMPER	
5	4-838-453-00	SUPPORT		19	4-397-047-01	HOLDER, DAMPER	
6	4-037-360-11	PLATE (L), DIFFUSION		20	*1-644-711-11	H2 BOARD	
7	4-037-359-11	PLATE (F), DIFFUSION		21	4-838-438-00	LATCH	
8 .	4-036-091-51	HOLDER (L) SCREEN		22	X-4030-569-1	GRILLE (R) ASSY,	SPEAKER
9	4-036-092-21	HOLDER (S) SCREEN		23	1-504-145-11	SPEAKER (12CM)	
10	4-036-091-21	HOLDER (S) SCREEN		24	X-4030-570-1	GRILLE (L) ASSY,	SPEAKER
11	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	D	25	7-688-000-29	WASHER 10 BLOCK	
12	4-037-629-01	ESCUTCHEON, FRONT, FINAL		26	*1-644-710-11	H1 BOARD	
13	X-4030-605-1	PANEL ASSY, CONTROL	14-19	27	*1-644-712-11	H3 BOARD	
14	4-037-632-01	LID, FINAL CONTROL		28	4-037-636-01	ADAPTOR, BUTTON	

6-2. CABINET

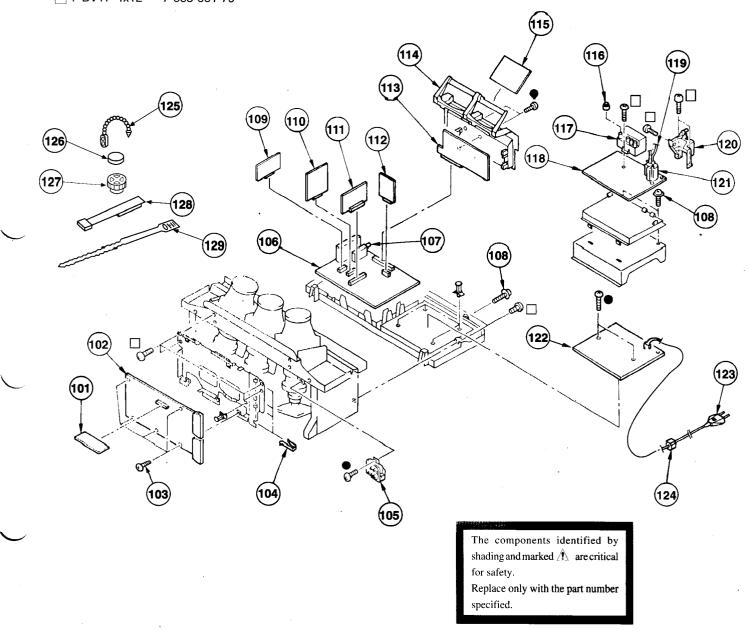
: BVTP 4X12 7-685-661-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4 030-603-1	CABINET ASSY	52-57	58	X-4030-604-3	COVER ASSY, BACK	
52	4-037-473-01	NUT, FITTING		59	4-378-522-31	SCREW, TAPPING, HEXAGON F	IEAD
53	4-037-472-01	LEG, ADJUSTABLE		60	4-202-887-01	RIVET ALUMINIUM	
54	4-032-343-11	CASTER		61	4-037-351-01	HOLDER MIRROR	
55	4-378-522-11	SCREW, TAPPING, HEXAGON HEAD)	62	4-037-534-01	MIRROR (46), REFLECTION	
56	4-030-850-01	SOCKET, CASTER		63	4-036-462-01	COVER (46"), MIRROR	
57	4-037-639-01	BRACKET, AC CORD		64	4-378-522-21	SCREW, TAPPING, HEXAGON H	EAD
		,		65	A-1642-141-A	E2 BOARD, COMPLETE	

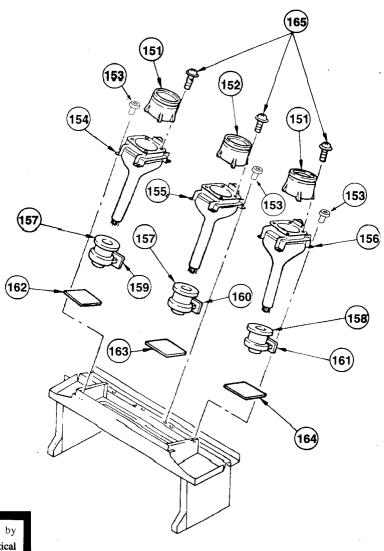
6-3. CHASSIS

●: BVTP 3x12 7-685-648-79
□: BVTP 4x12 7-685-661-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	*1-650-883-12 *A-1640-159-A 4-302-428-03 *4-393-401-01 *1-241-744-11 *A-1632-207-A 1-693-185-11 3-701-810-91 *A-1630-303-A *A-1644-054-A *A-1635-029-A *A-1388-158-A *4-037-620-01 -*A-1622-006-A	DS BOARD D BOARD, COMPLETE SCREW (WASHER HEAD) SPRING, TRANSISTOR RESISTOR ASSY (HIGH- A BOARD, COMPLETE TUNER (UV916H) SCREW, TERMINAL A1 BOARD, COMPLETE VM BOARD, COMPLETE M2 BOARD, COMPLETE B BOARD, COMPLETE J BOARD, COMPLETE BRACKET, J P1 BOARD, COMPLETE	(+P 3X12)	116 118 119 120 121 122 123 A	4-373-137-01	CAP (Z), RUBBER DC BLOCK, HIGH-VOLTAG N BOARD, COMPLETE LEAD ASSY, HIGH-VOLTAGE COVER, FBT TRANSFORMER ASSY, FLYBACK G BOARD, COMPLETE CORD, POWER HOLDER, AC CORD CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK: 1 PERMALLOY ASSY, CORRECTIC BAND, BINDING	(NX-2630B4)

6-4. PICTURE TUBE



The components identified by shading and marked $\hat{\Delta}$ are critical for safety.

Replace only with the part number specified.

REF NO	PART NO	DESCRIPTION REMARK	C REF NO	PART NO	DESCRIPTION	REMARK
151 152 153 154 A 155 A 156 A	4-034-057-01 4-034-057-11 4-202-887-01 8-736-074-05 8-736-072-05 8-736-073-05 8-451-441-11 8-451-441-21	LENS (LINNIT) LENS (LINNIT) RIVET ALMINIUM PICTURE TUBE (SD-279) (07MAB2 (R) PICTURE TUBE (SD-279) (07MAB2 (G) PICTURE TUBE (SD-279) (07MAB2 (B) DEFLECTION YOKE (Y829PA (R,G)) DEFLECTION YOKE (Y829PAN2 (B))	163	*1-653-061-11 *1-653-062-11 *1-653-063-11 *A-1638-049-A *A-1638-051-A *A-1638-050-A 3-701-810-91	ZR BOARD ZG BOARD ZB BOARD CR BOARD, COMPLETE CG BOARD, COMPLETE CB BOARD, COMPLETE SCREW, TERMINAL	

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked ! are critical for safety. Replace only with the part number

specified.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF: mF, PF: mmF

MMH: mH, µH: mh

RESISTORS

- All resistors are in ohms
- F: nonflammable









,		•	F: nonflammab	ole	1 1			J
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	F	REMARK
	*1-644-710-11	H1 BOARD		JR082	1-216-296-00	METAL GLAZE 0	5% 1/8W	
				R082 R083 R084 R085 R086	1-249-429-11 1-249-425-11 1-249-421-11 1-216-053-00 1-216-053-00	CARBON 4.7K CARBON 2.2K METAL GLAZE 1.5K	5% 1/4W 5% 1/10W	
CN0732	*1-564-522-11	PLUG, CONNECTOR 7P			< SWI	TCH >		
D092	< DIC	·		S082 S083 S084	1-571-731-11	SWITCH, TACTIL SWITCH, TACTIL SWITCH, TACTIL		
D093 D094	8-719-812-41	DIODE TLR124 DIODE TLR124	•	******	******	*******	******	*****
2034	< IC				*1-644-712-11	H3 BOARD		
IC091	8-741-810-09	IC SBX1810-09			< CON	NECTOR >		
	< RES	SISTOR >		¢n0959 Æ	*1-580-689-11	PIN, CONNECTOR (PC E	BOARD) 4P	
R091	1-249-413-11	CARBON 470 5%	1/4W	CN0960 A	*1-580-689-11	PIN, CONNECTOR (PC E	BOARD) 4P	
******	********	******	*****		< SWI	TCH >		
	*1-644-711-11	מסגסת נע		8095 4	1-692-293-11	SWITCH, PUSH (AC POW	VER) (1 KEY)	
	1-044-711-11	******		******	********	*******	*********	*****
	< CAI	PACITOR >			*A-1388-158-A	J BOARD, COMPLETE		
C083 C084	1-101-005-00 1-101-005-00		50 V 50 V		< CAF	PACITOR >		
	< COM	NNECTOR >		C250		CERAMIC CHIP 470PF	5%	50V
CN0808 CN0819 CN0831	*1-564-518-11	PLUG, CONNECTOR 10P PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P		C281 C291 C292 C293	1-124-442-00 1-101-005-00 1-101-005-00 1-102-125-00	CERAMIC 0.022ME CERAMIC 0.022ME	? ?	6.3V 50V 50V 50V
	< JA0	CK >		C294	1-102-125-00			50V
J081 J082	1-565-931-11 1-691-293-11	TERMINAL BLOCK, S 3P JACK		C295 C296 C901	1-163-009-11 1-163-017-00	CERAMIC CHIP 0.001ME CERAMIC CHIP 0.001ME CERAMIC CHIP 0.0047M	7 10% MF 10%	50V 50V
	< CO1	IL >		C902		CERAMIC CHIP 0.0047N		50V
L081 L082	1-408-409-00 1-408-409-00			C904 C905 C906	1-163-133-00 1-163-133-00 1-101-004-00	CERAMIC CHIP 470PF CERAMIC 0.01MF	5% 5%	50V 50V 50V
	< RES	SISTOR >		C907 C908	1-163-133-00 1-163-133-00		5% 5%	50V 50V
JR081	1-216-296-00	METAL GLAZE 0 5%	1/8W	C909	1-101-004-00	CERAMIC 0.01MF		50V



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C910 C911 C912 C913	1-163-017-00 1-163-017-00 1-163-133-00 1-163-133-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF	10% 10% 5% 5 %	50V 50V 50V 50V	D922 D923 D924 D925 D926	8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A	•	
C914 C915 C916 C917 C918	1-163-121-00 1-163-017-00 1-163-017-00	CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 470PF	5% 5% 10% 10% 5%	50V 50V 50V 50V 50V	D927 D928	8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A KET >		
C919 C920 C921 C922 C923	1-163-017-00 1-163-017-00 1-124-477-11	CERAMIC CHIP 470PF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF ELECT 47MF CERAMIC CHIP 1MF	5% 10% 10% 20%	50V 50V 50V 16V	J291 J901 J903 J904	1-695-296-11 1-695-549-11	TERMINAL BOARD, IN TERMINAL BLOCK, S SOCKET, PIN 21P TERMINAL BLOCK, S	PUT/OUT PUT	
C924 C925 C926 C927 C928	1-124-477-11 1-124-477-11 1-164-346-11 1-124-477-11 1-124-477-11	ELECT 47MF CERAMIC CHIP 1MF ELECT 47MF	20% 20% 20% 20%	16V 16V 16V 16V 16V	J905 J906 J907	1-695-293-11 1-695-296-11 1-695-549-11	SOCKET, PIN 21P SOCKET 21P; J905 TERMINAL BLOCK, S SOCKET, PIN 21P SOCKET 21P; J907		
C929 C930 C931 C932 C933		ELECT 47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	20% 20% 20%	16V 16V 16V 16V 16V	L291 L292 L294 L295	1-402-711-11 1-402-711-11	L > INDUCTOR, WIDEBAND INDUCTOR, WIDEBAND INDUCTOR, WIDEBAND INDUCTOR, WIDEBAND		
C934 C935 C936 C937 C938		ELECT 47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	20% 20% 20%	16V 16V 16V 16V 16V	Q281 Q282 Q283	8-729-920-74 8-729-920-74	NSISTOR > TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR 2SA1162	K-QR	
	< CON	NECTOR >				< RES	SISTOR >		
CN1209 CN1210 CN1240	*1-564-522-11	CONNECTOR, BOARD TO BO. PLUG, CONNECTOR 7P PLUG, CONNECTOR 4P	ARD 50P		JR201 JR901 JR905 JR909 JR910	1-216-296-00 1-216-295-91 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 1/8 5% 1/8 5% 1/8 5% 1/8 5% 1/8	BW Low
D201 D202 D203 D204 D901	8-719-924-11 8-719-924-11 8-719-924-11 8-719-924-11	DIODE MTZJ-22 DIODE MTZJ-22 DIODE MTZJ-22 DIODE MTZJ-22 DIODE MTZJ-9.1A			JR911 JR915 JR917 JR918 JR921	1-216-296-00 1-216-295-91 1-216-296-00 1-216-295-91 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 1/8 5% 1/3 5% 1/3 5% 1/3 5% 1/3	BW LOW LOW
D902 D903 D904 D905 D906	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR923 JR924 JR926 JR927 JR928	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 1/8 5% 1/8 5% 1/8 5% 1/8	BW BW
D907 D908 D909 D910 D911	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR935 JR939 JR940 JR942 JR944	1-216-296-00 1-216-295-91 1-216-295-91 1-216-171-00 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 75	5% 1/8	LOW Low
D912 D913 D914 D915 D916	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR946 JR947 JR952 JR954	1-216-296-00 1-216-295-91 1-216-296-00 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 1/3 5% 1/3	10W 10W
D917 D918 D919 D920 D921	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			R283 R284 R286 R287 R288	1-216-073-00 1-216-073-00 1-216-097-00 1-216-216-00 1-216-216-00	METAL GLAZE 10K METAL GLAZE 100F METAL GLAZE 5.6F	5% 1/	





REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>	REMARK	REF.NO.	PART NO.	DESCRIPTION	ļ		REMARK
R289 R291 R292 R901 R902	1-216-055-00 1-249-413-11 1-249-413-11 1-216-039-00 1-216-039-00	METAL GLAZE CARBON CARBON METAL GLAZE METAL GLAZE	1.8 K 5% 470 5% 470 5% 390 5% 390 5%	1/4W 1/4W 1/10W	R961 R965 R966 R967 R990	1-216-071-00 1-216-178-00 1-216-178-00 1-216-178-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 5% 150 5% 150 5% 150 5% 1.5K 5%	1/10W 1/8W 1/8W 1/8W 1/10W	
R903 R904 R905 R906 R907	1-216-113-00 1-216-113-00 1-216-188-00 1-216-039-00 1-216-178-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 470K 5% 390 5% 390 5% 150 5%	1/10W 1/8W 1/10W	R991 R992 R993 R994 R995	1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R908 R909 R910 R911 R913	1-216-178-00 1-216-113-00 1-216-113-00 1-216-022-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 5% 470K 5% 470K 5% 75 5% 3.9K 5%	1/10W 1/10W	R996 R997 R998 R999	1-216-202-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5%	1/8W 1/10W 1/10W 1/10W	
R914 R915 R916 R917 R919	1-216-063-00 1-216-113-00 1-216-113-00 1-216-022-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5% 470K 5% 470K 5% 75 5% 3.9K 5%	1/10W 1/10W 1/10W		*A-1620-049-A	B BOARD, COMPI	LETE		
R920 R921 R922 R923 R924	1-216-063-00 1-216-022-00 1-216-222-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5% 75 5% 10K 5% 390 5% 390 5%	1/10W 1/10W 1/8W 1/10W	C1301 C1302 C1303 C1304 C1305	1-164-232-11 1-126-101-11 1-164-232-11 1-164-232-11 1-163-105-00	CERAMIC CHIP	100MF 0.01MF 0.01MF	10% 20% 10% 10% 5%	50V 16V 50V 50V 50V
R925 R926 R927 R928 R929	1-216-089-00 1-216-039-00 1-216-039-00 1-216-089-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 390 5% 390 5% 47K 5% 3.9K 5%	1/10W 1/10W 1/10W	C1306 C1307 C1308 C1309 C1310	1-163-109-00 1-164-232-11 1-163-101-00 1-163-101-00 1-126-101-11	CERAMIC CHIP CERAM	0.01MF 22PF	5% 10% 5% 5% 20%	50V 50V 50V 50V 16V
R930 R931 R932 R933 R934	1-216-113-00 1-216-212-00 1-216-113-00 1-216-073-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 3.9K 5% 470K 5% 10K 5% 3.9K 5%	1/8W 1/10W 1/10W	C1311 C1312 C1313 C1314 C1315	1-163-038-91 1-163-133-00 1-104-792-51 1-126-101-11 1-164-232-11		470PF 33MF 100MF	5% 20% 20% 10%	25V 50V 16V 16V 50V
R935 R937 R938 R939 R940	1-216-022-00 1-216-113-00 1-216-039-00 1-216-188-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 5% 470K 5% 390 5% 390 5% 3.9K 5%	1/10W 1/10W 1/8W	C1316 C1317 C1319 C1320 C1321	1-126-101-11 1-164-232-11 1-164-232-11 1-163-141-00 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.001MF	20% 10% 10% 5% 10%	16V 50V 50V 50V 50V
R941 R942 R943 R944 R945	1-216-113-00 1-216-188-00 1-216-089-00 1-216-188-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 390 5% 47K 5% 390 5% 47K 5%	1/8W 1/10W 1/8W	C1322 C1323 C1324 C1325 C1326	1-164-232-11 1-126-101-11 1-164-232-11		0.01MF 100MF 0.01MF	10% 10% 20% 10% 10%	50V 50V 16V 50V 50V
R946 R947 R948 R949 R950	1-216-022-00 1-216-178-00 1-216-073-00 1-216-113-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	75 5% 150 5% 10K 5% 470K 5% 3.9K 5%	1/8W 1/10W 1/10W	C1327 C1328 C1329 C1330 C1331	1-164-232-11		0.01MF 0.1MF 0.1MF	10% 10% 10%	50V 50V 25V 25V 50V
R951 R952 R953 R954 R955	1-216-063-00 1-216-113-00 1-216-188-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5% 470K 5% 390 5% 390 5% 390 5%	1/10W 1/8W 1/10W	C1332 C1333 C1336 C1337 C1338	1-164-232-11 1-163-249-11 1-163-257-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 82PF 180PF	10% 10% 5% 5% 0.5PF	50V 50V 50V 50V
R956 R957 R958 R959 R960	1-216-089-00 1-216-039-00 1-216-089-00 1-216-071-00 1-216-071-00	METAL GLAZE METAL GLAZE	47K 5% 390 5% 47K 5% 8.2K 5% 8.2K 5%	1/10W 1/10W 1/10W	C1339 C1340 C1341	1-124-477-11	CERAMIC CHIP ELECT CERAMIC CHIP	47MF	0.5PF 20% 10%	50V 16V 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	<u>REF.NO</u> .	PART NO.	DESCRIPTION			REMARK
	< COM	NECTOR >	*	R1321	1-216-049-00		1K 5%	1/100	
CN0302	1-573-299-21	CONNECTOR, BOARD TO BOARD 10	P	R1322 R1324	1-216-025-00 1-216-055-00	METAL GLAZE	100 5% 1.8K 5%	1/10V 1/10V	7
	< DIC	DDE >		R1325 R1326	1-216-043-91 1-216-067 - 00	METAL GLAZE METAL GLAZE	560 5% 5.6K 5%	1/10V 1/10V	
D1301	8-719-914-43	DIODE DAN202K		R1327	1-216-049-00		1K 5%	1/107	
	< ENC	CAPSULATED FILTER >		R1328 R1329	1-216-049-00 1-216-049-00	METAL GLAZE	1K 5% 1K 5%	1/10V 1/10V	ī
FL1301	1-239-550-41	FILTER, LOW PASS		R1330 R1332	1-216-055-00 1-208-784-11		1.8K 5% 1.2K 0.50	1/10V 1/10V	
FL1302 FL1303	1-239-550-41 1-239-930-11	FILTER, LOW PASS FILTER, BAND PASS		R1333	1-216-666-11		4.3K 0.50		
,	< IC	>		R1334 R1335	1-208-767-11 1-216-637-11	METAL CHIP	270 0.50		Ī
IC1301	8-752-357-88	IC CXD2024Q		R1336 R1337	1-216-657-11 1-216-663-11		1.8K 0.50 3.3K 0.50		
	< CO1	IL >		R1338	1-216-657-11		1.8K 0.50		
L1301	1-408-405-00	INDUCTOR 4.7UH		R1339 R1342	1-216-295-91 1-216-295-91	METAL GLAZE	0 5% 0 5%	1/10V 1/10V	
L1302 L1303	1-408-403-00 1-408-405-00	INDUCTOR 3.3UH INDUCTOR 4.7UH		R1344 R1345	1-216-059-00 1-216-045-00		2.7K 5% 680 5%	1/10V 1/10V	
L1304 L1307	1-408-405-00 1-408-421-00	INDUCTOR 4.7UH INDUCTOR 100UH		R1346	1-216-039-00		390 5%	1/107	ĭ
L1308	1-408-418-00	INDUCTOR 56UH		R1347 R1349	1-216-055-00 1-216-041-00	METAL GLAZE METAL GLAZE	1.8K 5% 470 5%	1/10V 1/10V	
	< TRA	CONNECTOR > CONNECTOR, BOARD TO BOARD 10 DDE > DIODE DAN202K CAPSULATED FILTER > FILTER, LOW PASS FILTER, LOW PASS FILTER, BAND PASS > IC CXD2024Q LL > INDUCTOR 4.7UH INDUCTOR 3.3UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 56UH ANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR	!	R1352 R1353	1-216-295-91 1-216-037-00	METAL GLAZE	0 5% 330 5%	1/10V 1/10V	
Q1301	8-729-216-22	TRANSISTOR 2SA1162-G		R1354	1-216-031-00		180 5%	1/100	
Q1302 Q1303	8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R1355 R1356	1-216-043-91 1-216-043-91	METAL GLAZE	560 5 % 560 5 %	1/10V 1/10V	
Q1304 Q1305	8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-OR		R1357 R1358	1-216-033-00	METAL GLAZE	220 5%	1/10	Ţ
Q1306	8-729-920-74	TRANSISTOR 2SC2412K-OR		R1359	1-216-033-00	METAL GLAZE	220 5%	1/100	I
Q1307 Q1308	8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R1360	1-249-417-11	CARBON	1K 5%	1/4W	•
Q1309 Q1311	0 123 320 14	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		******	*** *****	METAL GLAZE CARBON ***********************************	*******	******	******
Q1312	*	TRANSISTOR 2SA1162-G			*A-1622-006-A	P1 BOARD, COMP	LETE ****		
Q1313 Q1314	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G			< CAP	ACITOR >			
Q1315		TRANSISTOR 2SC2412K-QR		C1401	1-163-038-91	CERAMIC CHIP 0	.1MF		25V
	< RES	SISTOR >		C1402 C1403	1-163-038-91	CERAMIC CHIP 0 CERAMIC CHIP 0	.1MF	10%	25V 50V
R1301 R1302	1-216-053-00 1-216-059-00	METAL GLAZE 1.3K 3% 1/	10W 10W	C1404 C1405	1-163-037-11	CERAMIC CHIP 0 CERAMIC CHIP 1	.022MF	10% 5%	25V 50V
R1303 R1304	1-216-043-91 1-216-043-91	METAL GLAZE 560 5% 1/	10W 10W	C1406		CERAMIC CHIP 1		5%	50V
R1305	1-216-067-00		10W	C1407 C1408	1-163-038-91	CERAMIC CHIP 0	.1MF		25V
R1306 R1307	1-216-073-00 1-216-069-00	· · · · · · · · · · · · · · · · · · ·	10W	C1409	1-124-903-11		MF	10% 20%	50V 50V
R1308	1-216-069-00	METAL GLAZE 6.8K 5% 1/	10W 10W	C1410		CERAMIC CHIP 0			25V
R1309 R1310	1-216-055-00 1-216-295-91		10W 10W	C1412 C1414	1-163-121-00	CERAMIC CHIP 0 CERAMIC CHIP 1	50PF	5%	25V 50V
R1311	1-216-073-00		10W	C1416 C1417	1-163-129-00	CERAMIC CHIP 3: CERAMIC CHIP 3:	30PF	5% 5%	50V 50V
R1312 R1313	1-216-057-00 1-216-089-00	METAL GLAZE 47K 5% 1/	10W 10W	C1419		CERAMIC CHIP 0			25V
R1314 R1315	1-216-065-00 1-216-049-00		10W 10W	C1420 C1421	1-163-038-91	CERAMIC CHIP 0 CERAMIC CHIP 0	.1MF		25V 25V
R1316	1-216-071-00	METAL GLAZE 8.2K 5% 1/	10W	C1422 C1423	1-163-038-91	CERAMIC CHIP 0 CERAMIC CHIP 0	.1MF		25V 25V
R1317 R1318	1-216-083-00 1-216-051-00		10W 10W	C1424		CERAMIC CHIP 0		10%	50V
R1319 R1320	1-216-043-91 1-216-067-00	METAL GLAZE 560 5% 1/	10W 10W	C1425 C1426		CERAMIC CHIP 0 CERAMIC CHIP 1		10% 5%	50V 50V
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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N_	REMARK
C1427 C1428 C1429	1-124-916-11 1-163-038-91 1-163-097-00	ELECT 22MF CERAMIC CHIP 0.1MF CERAMIC CHIP 15PF	20% 5%	50V 25V 50V	FL1405 FL1406 FL1407	1-236-071-11	ENCAPSULATED ENCAPSULATED ENCAPSULATED	COMPONENT	
C1430	1-163-038-91	CERAMIC CHIP 0.1MF		25V	FL1408	1-236-071-11	ENCAPSULATED	COMPONENT	
C1431 C1432		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10%	25V					
C1432		CERAMIC CHIP 0.1MF	10% 10%	25V 25V		< IC	>		
C1434	1-163-038-91	CERAMIC CHIP 0.1MF		25V	IC1401	8-759-183-35			
C1435	1-163-038-91	CERAMIC CHIP 0.1MF		25V	IC1402 IC1403	8-759-288-85 8-759-248-15	IC TDA4665T IC SDA9187-2X	GEG	
C1437	1-164-343-11	CERAMIC CHIP 0.056MF	10%	25V	IC1404	8-759-324-35	IC SDA9188-3X		,
C1438 C1439		CERAMIC CHIP 0.001MF CERAMIC CHIP 47PF	10% 5%	50V 50V	IC1406	8-759-183-36	IC TDA8443B		
C1440	1-163-245-11	CERAMIC CHIP 56PF	5%	50V	IC1410	8-759-295-82	IC L78L08ACZ-	AP	
C1441		CERAMIC CHIP 0.47MF		25V		< COI	L >		
C1442 C1443		CERAMIC CHIP 0.47MF CERAMIC CHIP 100PF	5%	25V 50V	L1401	1-408-418-00	TANDUGMOD	56UH	
C1444	1-164-005-11	CERAMIC CHIP 0.47MF	24	25V	L1405	1-408-407-00		6.8UH	
C1445	1-164-005-11	CERAMIC CHIP 0.47MF		25V	L1406	1-408-407-00		6.8UH	
C1446	1-164-005-11	CERAMIC CHIP 0.47MF		25V	L1407 L1408		INDUCTOR, FER		
C1451 C1452		CERAMIC CHIP 680PF	10%	50V					
C1453	1-163-038-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V		< TKA	NSISTOR >		
C1454	1-163-038-91	CERAMIC CHIP 0.1MF		25V	Q1401		TRANSISTOR 2S		
C1455	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	Q1402 Q1403		TRANSISTOR 2S		
C1456 C1457	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	Q1404	8-729-216-22	TRANSISTOR 2S	A1162-G	
C1457	1-164-505-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 2.2MF		25V 16V	Q1405	8-729-920-74	TRANSISTOR 2S	C2412K-QR	
C1459		CERAMIC CHIP 2.2MF		16V	Q1406	8-729-920-74	TRANSISTOR 2S	C2412K-QR	
C1460		CERAMIC CHIP 0.1MF		25V	Q1407 Q1408		TRANSISTOR 2S		
C1461 C1462		CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF		25V 25V	Q1409	8-729-216-22	TRANSISTOR 29	A1162-G	
C1463	1-126-101-11		20%	16V	Q1413	8-729-210-22	TRANSISTOR 2S	A1102-G	
C1464	1-126-101-11	ELECT 100MF	20%	16V	Q1414 Q1416		TRANSISTOR DT		
C1465	1-126-101-11		20%	16V	Q1417	8-729-900-53	TRANSISTOR DI	C114EK	
C1466 C1467	1-126-101-11 1-126-101-11		20% 20%	16V 16V	Q1418		TRANSISTOR DI		
C1468		CERAMIC CHIP 2.2MF	20%	16V	Q1419	6-729-900-55	TRANSISTOR DI	CII4EK	
C1469	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q1421 Q1422	8-729-920-74	TRANSISTOR 2S	C2412K-QR	
C1471			10%		Q1425	8-729-920-74	TRANSISTOR 2S	C2412K-QR	
C1472 C1473		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10 %	25 V 25 V	Q1426 Q1430	8- 729-920-74	TRANSISTOR 2S	C2412K-QR	
C1481	1-164-005-11	CERAMIC CHIP 0.47MF	10-0	25V	Č1430				
C1482	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	Q1431	8-729-901-04	TRANSISTOR DI	A114EK	
C1491	1-163-251-11	CERAMIC CHIP 100PF	5%	50V		< RES	SISTOR >		
	< CON	NECTOR >			JR1401		METAL GLAZE		1/10W
CN1514	*1-568-879-11	PIN, CONNECTOR 4P PLUG, CONNECTOR 13P PIN, CONNECTOR 4P			JR1402	1-216-295-91	METAL GLAZE	0 5%	1/10W
CN1515 CN1516	*1-564-516-11 *1-568-879-11	PLUG, CONNECTOR 13P			R1401 R1402	1-216-097-00 1-216-073-00		100K 5%	1/10W
CN1538	1-573-299-21	CONNECTOR, BOARD TO B	OARD 10P		R1402	1-216-073-00		10K 5% 100 5%	1/10W 1/10W
	< DIC	DE >			R1404 R1405	1-216-025-00 1-216-049-00		100 5% 1K 5%	1/10W 1/10W
D1401		DIODE MA3051L							
D1403	8-719-914-43	DIODE DAN202K			R1406 R1407	1-216-051-00 1-216-057-00		1.2K 5% 2.2K 5%	1/10W 1/10W
D1404 D1405		DIODE DA204K DIODE DA204K			R1408	1-216-041-00	METAL GLAZE	470 5%	1/10W
71403					R1410 R1411	1-216-029-00 1-216-041-00		150 5% 470 5%	1/10W 1/10W
	< ENC	APSULATED FILTER >			D1/12			470 ED.	
FL1403		ENCAPSULATED COMPONEN			R1412 R1413	1-216-041-00 1-216-041-00	METAL GLAZE	470 5% 470 5%	1/10W 1/10W
FL1404	1-236-071-11	ENCAPSULATED COMPONEN	T		R1414	1-216-045-00	METAL GLAZE	680 5%	1/10W

P1 A1

DECNO	DADTNA	J BEAARING'S			B. M. L						
REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK
R1415 R1416	1-216-045-00 1-216-049-00	METAL GLAZE METAL GLAZE	680 1K	5% 5%	1/10W 1/10W		*A-1630-303-A	A1 BOARD, CO			
R1417	1-216-033-00	METAL GLAZE	220	5%	1/10W		< CAP	ACITOR >			
R1418	1-216-025-00		100	5%	1/10W						
R1419 R1421	1-216-027-00 1-216-033-00		120	5%	1/10W	C1101	1-126-101-11	ELECT	100MF	20%	16V
R1421	1-216-033-00	METAL GLAZE METAL GLAZE	220 82	5% 5%	1/10W 1/10W	C1102 C1103	1-126-101-11		100MF	20%	16V
VIII 4	1 210-025-00	METAU GUAZE	04	20	1/10#	C1103	1-163-038-91 1-163-077-00	CERAMIC CHIP		1.00.	25V
R1424	1-216-041-00	METAL GLAZE	470	5%	1/10W	C1104 C1105	1-164-489-11	CERAMIC CHIP CERAMIC CHIP		10% 10%	25V 16V
R1425	1-216-041-00		470	5%	1/10W	01103	1 101 103 11	Chicanic Chir	0.22Hr	10%	104
R1426	1-216-041-00	METAL GLAZE	470	5%	1/10W	C1106	1-163-187-00	CERAMIC CHIP	180PF	5%	50V
R1427	1-216-041-00	METAL GLAZE	470	5%	1/10W	C1107	1-163-009-11			10%	50V
R1429	1-216-091-00	METAL GLAZE	56K	5%	1/10W	C1108	1-163-059-00	CERAMIC CHIP			50V
R1430	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	C1109 C1110	1-163-033-91 1-164-336-11				50V
R1431	1-216-073-00	METAL GLAZE	10K	5%	1/10W	CIIIV	1-104-330-11	CERAMIC CHIP	U.JJMF		25V
R1434	1-216-043-91	METAL GLAZE	560	5%	1/10W	C1111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50 V
R1435	1-216-073-00		10K	5%	1/10W	C1112	1-164-161-11	CERAMIC CHIP		10%	50V
R1436	1-216-043-91	METAL GLAZE	560	5%	1/10W	C1113	1-124-477-11		47MF	20%	16V
R1437	1-216-031-00	METAL GLAZE	180	5%	1/10W	C1114	1-163-038-91			0.00	25V
R1438	1-216-045-00		680	5%	1/10W 1/10W	C1115	1-124-477-11	ELECT	47MF	20%	16V
R1439	1-216-057-00		2.2K		1/10W	C1116	1-106-228-00	MYLAR	0.22MF	10%	100V
R1441	1-216-053-00	METAL GLAZE		5%	1/10W	C1117	1-163-081-00	CERAMIC CHIP		200	25V
R1442	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C1118	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
R1443	1-216-053-00	WEMNI OTNER	1 50	FO.	1 /1 097	C1119	1-163-193-00	CERAMIC CHIP		5%	50V
R1445	1-216-053-00		1.5K 470	5% 5%	1/10W 1/10W	C1120	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
R1445	1-216-083-00	METAL GLAZE	27K	5%	1/10W	C1121	1-163-113-00	CERAMIC CHIP	68DF	5%	50 V
R1449	1-216-033-00		220	5%	1/10W	C1122	1-163-081-00	CERAMIC CHIP		2.0	25V
R1450	1-216-033-00	METAL GLAZE	220	5%	1/10W	C1123	1-106-228-00		0.22MF	10%	100V
D1453	1 016 005 00		444	=-		C1124	1-124-477-11	ELECT	47MF	20%	16V
R1453 R1454	1-216-025-00 1-216-025-00		100 100	5% 5%	1/10W 1/10W	C1125	1-124-477-11	ELECT	47 MF	20%	16V
R1455	1-216-023-00		22K	5%	1/10W 1/10W	C1126	1-163-077-00	CERAMIC CHIP	0 1ME	10%	25V
R1456	1-216-081-00		22K	5%	1/10W	C1127		CERAMIC CHIP	0.1MF	10-0	25V
R1457	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C1128	1-124-477-11	ELECT	47MF	20%	16V
71450	1 016 053 00	VEM11 011E	4 500	F 0	4 /4 000	C1129	1-163-038-91				25V
R1458 R1462	1-216-053-00 1-216-073-00	METAL GLAZE METAL GLAZE	1.5K	5% 5%	1/10W	C1130	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
R1464	1-216-093-00	METAL GLAZE	10K 68K	5%	1/10W 1/10W	C1131	1-163-059-00	CERAMIC CHIP	0.01MP		50V
R1465	1-216-093-00	METAL GLAZE	68K	5%	1/10W	C1132		CERAMIC CHIP	0.01MF		25V
R1466	1-216-295-91	METAL GLAZE	0	5%	1/10W	C1133	1-124-907-11		10MF	20%	50V
D1460	1 016 010 00				4.444	C1134		CERAMIC CHIP		10%	50V
R1468 R1469	1-216-049-00 1-216-049-00	METAL GLAZE	1K 1K	5% 5%	1/10W 1/10W	C1135	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1471	1-216-037-00		330	5%	1/10W 1/10W	C1136	1-163-117-00	CERAMIC CHIP	10000	5%	50V
R1481	1-216-089-00		47K	5%	1/10W	C1137	1-163-038-91	CERAMIC CHIP	0.1MF	20	25V
R1483	1-216-079-00		18K	5%	1/10W	C1138	1-163-105-00			5%	50V
21101	1 015 001 00					C1139	1-163-105-00			5%	50V
R1484 R1485	1-216-081-00 1-216-041-00		22K 470	5% 5%	1/10W 1/10W	C1140	1-163-181-00	CERAMIC CHIP	100PF	5%	50 V
R1486	1-216-033-00	METAL GLAZE	220	5%	1/10W 1/10W	C1141	1-163-205-00	CERAMIC CHIP	0 001MP	5%	50V
R1487	1-216-033-00	METAL GLAZE	220	5%	1/10W	C1142		CERAMIC CHIP		J70	50V
R1493	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C1143	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
701404	1 016 005 00		400	=0	4 /4 000	C1144	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
R1494 R1495	1-216-025-00 1-216-053-00		100		1/10W	C1145	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
R1496	1-216-065-00		1.5K 4.7K		1/10W 1/10W	C1146	1-163-038-91	CERAMIC CUID	0 11/17		25V
R1497	1-216-053-00		1.5K		1/10W	C1147	1-124-477-11		47MF	20%	16V
R1498	1-216-053-00		1.5K		1/10W	C1148	1-164-161-11	CERAMIC CHIP		10%	50V
D1 400	1 016 055 65	LMM)		=^	4 /4 000	C1149	1-124-477-11		47MF	20%	16 V
R1499	1-216-057-00	METAL GLAZE	2.2K	ኃኝ	1/10W	C1150	1-163-038-91	CERAMIC CHIP	0.1MF		25 V
	< CRY	STAL >				C1151	1-163-038-91	CERAMIC CHIP	0.1MR		25V
						C1152	1-103-038-31		47MF	20%	25V 16V.
X1401	1-567-505-11	OSCILLATOR, C	RYSTAL			C1153	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	
X1402	1-567-504-11	OSCILLATOR, C	RYSTAL			C1154	1-163-038-91				25V
X1403	1-/60-551-21	VIBRATOR, CER	AMIC			C1155	1-124-477-11	ELECT	47MF	20%	16V
						C1156	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
						-==-		Januario Chif	O . O O LEAF	±0.0	301

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	REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	Ŋ			REMARK
	C1157	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V	R1112	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
	C1158		CERAMIC CHIP 0.1MF	25V	R1113	1-216-001-00	METAL GLAZE	10	5%	1/10W	
		∠ FII.	TER >		R1114 R1115	1-216-105-91 1-216-121-00		220K 1M	5% 5%	1/10W 1/10W	
	pp1101	1 000 045 11			R1116	1-216-049-00		1K	5%	1/10W	
	BP1101	1-239-04/-11	FILTER, BAND PASS		R1117	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
	CF1101	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	-	R1118	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
	CF1102	1-404-134-00	TRAP, CERAMIC (5.5MHZ)		k1119 R1120	1-216-073-00 1-216-232-00		10K 27K	5% 5%	1/10W 1/8W	
		< CON	TER > FILTER, BAND PASS TRAP, CERAMIC (6.5MHZ) TRAP, CERAMIC (5.5MHZ) INECTOR >		R1121	1-216-081-00		22K	5%	1/10W	
	CN0201		CONNECTOR, BOARD TO BOARD 20P		R1122	1-216-158-00		22	5%	1/8W	
		< DIO	אמנ		R1123 R1124	1-216-158-00 1-216-089-00		22 47K	5% 5%	1/8W 1/10W	
		\ 220	,		R1125	1-216-097-00		100K		1/10W	
	D1101 D1102		DIODE DAP202K DIODE 1SV217 DIODE 1SV214 RITE BEAD >		R1126	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W	
	D1102		DIODE 1SV217 DIODE 1SV214		R1127	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
					R1128	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
		< FER	RITE BEAD >		R1129 R1130	1-216-089-00		47K	5% 5%	1/10W	
	FB1101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R1130 R1131	1-216-246-91 1-216-218-00		100K 6.8K		1/8W 1/8W	
	FB1102	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH								
	FB1103 FB1104	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH		R1132 R1133	1-216-097-00 1-216-089-00		100K 47K	5% 5%	1/10W	
	FB1105	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R1133	1-216-212-00		3.9K		1/10W 1/8W	
					R1135	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
	FB1107	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R1136	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
		< IC	>		R1137	1-216-095-00		82K	5%	1/10W	
	IC1101	8-759-511-88	IC TDA8732		R1138 R1139	1-216-097-00 1-216-005-00		100K 15	5% 5%	1/10W 1/10W	
	IC1102	8-759-073-17	IC SAA7282P		R1140	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
		< COI	IL >		R1141	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
		4 400 405 00			R1142	1-216-033-00		220	5%	1/10W	
	L1101 L1102	1-408-405-00 1-408-405-00			R1143 R1144	1-216-049-00 1-216-049-00		1K 1K	5% 5%	1/10W 1/10W	
	L1103	1-410-119-11			R1145	1-216-001-00		10	5%	1/10W	
	L1104	1-410-119-11			R1146	1-216-049-00		1K	5%	1/10W	
	L1105	1-408-407-00	INDUCTOR 6.8UH		R1147	1-216-045-00	METAL GLAZE	680	5%	1/10W	
		< TRA	NSISTOR >		R1148	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	01101	9_720_020_74	TRANSISTOR 2SC2412K-OR		R1149	1-216-001-00		10	5%	1/10W	
	Q1101 Q1102		TRANSISTOR 2SC2412K-QR		R1150 R1151	1-216-045-00 1-216-049-00		680 1 K	5% 5%	1/10W 1/10W	
	Q1103	8-729-920-74	TRANSISTOR 2SC2412K-QR								
	Q1104 Q1105	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R1152 R1153	1-216-049-00		1K	5% 5%	1/10W	
					R1153 R1154	1-216-049-00 1-216-041-00		1K 470	5% 5%	1/10W 1/10W	
	Q1106 Q1107		TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR					•		••	
	Q1107 Q1108	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR			< CRY	STAL >				
			SISTOR >		X1101 X1102		VIBRATOR, CRY VIBRATOR, CRY				
	TD1100								****		
	JR1102 JR1103	1-216-296-00 1-216-296-00			*****	**********	******	*****	*****	*****	******
	JR1104	1-216-295-91				*A-1632-207-A	A BOARD, COMP				
	R1101	1-216-188-00									
	R1103 R1104	1-216-198-91 1-216-041-00				4-201-023-11	SPACER, INSUL	ATING			
	R1105	1-216-005-00	METAL GLAZE 15 5% 1/1	.0W		< CAP	ACITOR >				
	R1106	1-216-036-00	METAL GLAZE 300 5% 1/1	.WO.	C001	1-130-777-00	FILM	0.1MF		5%	63V
	R1107	1-216-042-00			C071	1-124-041-00	ELECT	220MF		20%	16V
	R1108 R1109	1-216-063-00 1-216-202-00	METAL GLAZE 3.9K 5% 1/1		C072	1-124-120-11	ELECT	220MF		20%	16V
	R11109 R11110	1-216-202-00	METAL GLAZE 1.5K 5% 1/8 METAL GLAZE 820 5% 1/8		C073 C074	1-163-125-00	CERAMIC CHIP	220PF		5% 10%	50 V 50 V
	R1111	1-216-041-00	METAL GLAZE 470 5% 1/1							*	



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C101 C102 C103 C104 C105	1-126-101-11 1-126-103-11 1-163-031-11 1-124-910-11 1-124-916-11	ELECT 470MF CERAMIC CHIP 0.01MF ELECT 47MF	20% 20% 20% 20%	16V 16V 50V 50V 50V	C304 C305 C306 C307 C308	1-164-004-11 1-163-117-00 1-163-117-00 1-163-017-00 1-163-809-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.047MF	10% 5% 5% 10% 10%	25V 50V 50V 50V 25V
C106 C120 C201 C202 C203	1-124-927-11 1-163-031-11 1-130-489-00 1-130-489-00 1-164-005-11	ELECT 4.7MF CERAMIC CHIP 0.01MF FILM 0.033MF FILM 0.033MF CERAMIC CHIP 0.47MF	20% 5% 5%	50V 50V 50V 50V 25V	C309 C310 C311 C312 C313	1-164-004-11 1-163-038-91 1-163-077-00 1-124-910-11 1-163-077-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF	10% 10% 20%	25V 25V 25V 50V 50V
C204 C205 C206 C207 C208	1-164-005-11 1-124-907-11 1-164-161-11 1-137-613-11 1-164-005-11	CERAMIC CHIP 0.47MF ELECT 10MF CERAMIC CHIP 0.0022MF FILM 0.0018MF CERAMIC CHIP 0.47MF	20% 10% 2%	25V 50V 50V 100V 25V	C314 C315 C316 C317 C318	1-163-038-91 1-124-910-11 1-163-077-91 1-163-103-00 1-163-103-00		20% 5% 5%	25V 50V 50V 50V 50V
C209 C210 C212 C213 C214	1-164-005-11 1-164-005-11 1-124-927-11 1-163-023-00 1-163-023-00	CERAMIC CHIP 0.47MF ELECT 4.7MF CERAMIC CHIP 0.015MF	20% 10% 10%	25V 25V 50V 50V 50V	C319 C320 C321 C322 C323	1-163-038-91 1-124-910-11 1-163-038-91 1-124-916-11 1-163-135-00	CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 560PF	20% 20% 5%	25V 50V 25V 50V 50V
C215 C216 C217 C218 C219	1-163-809-11 1-163-809-11 1-124-925-11 1-124-925-11 1-163-011-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF ELECT 2.2MF ELECT 2.2MF CERAMIC CHIP 0.0015MF	10% 10% 20% 20% 10%	25V 25V 50V 50V 50V	C324 C325 C333 C341 C342	1-124-910-11 1-216-295-91 1-163-213-00 1-163-077-00 1-163-077-00		20% 1/10 ⁶ 5% 10% 10%	50V W 50V 25V 25V
C220 C221 C222 C223 C224	1-163-011-11 1-124-925-11 1-124-925-11 1-136-177-00 1-136-177-00	CERAMIC CHIP 0.0015MF ELECT 2.2MF ELECT 2.2MF FILM 1MF FILM 1MF	10% 20% 20% 5% 5%	50V 50V 50V 50V 50V	C343 C344 C345 C347 C348	1-164-004-11 1-162-638-11 1-162-638-11 1-162-638-11 1-162-638-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	10%	25V 16V 16V 16V 16V
C225 C226 C227 C228 C229	1-164-182-11 1-163-007-11 1-124-907-11 1-124-907-11 1-126-101-11	CERAMIC CHIP 0.0033MF CERAMIC CHIP 680PF ELECT 10MF ELECT 10MF ELECT 100MF	10% 10% 20% 20% 20%	50V 50V 50V 50V 16V	C349 C350 C351 C352 C353	1-162-638-11 1-124-907-11 1-126-101-11 1-163-031-11 1-162-638-11	ELECT 10MF ELECT 100MF CERAMIC CHIP 0.01MF	20% 20%	16V 50V 16V 50V 16V
C230 C231 C232 C233 C234	1-126-101-11 1-164-346-11 1-163-009-11 1-163-009-11 1-163-017-00	CERAMIC CHIP 1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	20% 10% 10% 10%	16V 16V 50V 50V 50V	C354 C355 C356 C357 C358	1-162-638-11 1-162-638-11 1-164-299-11 1-164-299-11 1-164-299-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF	10% 10% 10%	16V 16V 25V 25V 25V
C235 C236 C237 C238 C239	1-130-772-00 1-124-618-11 1-124-618-11 1-163-017-00 1-130-772-00	ELECT 2200MF ELECT 2200MF CERAMIC CHIP 0.0047MF	5% 20% 20% 10% 5%	63V 35V 35V 50V 63V	C359 C361 C362 C363 C365	1-124-907-11 1-163-101-00 1-130-772-00 1-124-907-11 1-124-120-11	CERAMIC CHIP 22PF FILM 0.22MF ELECT 10MF	20% 5% 5% 20% 20%	50V 50V 63V 50V 16V
C240 C241 C242 C244 C248	1-124-916-11 1-124-916-11 1-124-903-11 1-164-232-11 1-163-121-00	ELECT 22MF ELECT 1MF CERAMIC CHIP 0.01MF	20% 20% 20% 10% 5%	50V 50V 50V 50V 50V	C366 C401 C402 C403 C411	1-124-917-11 1-164-005-11	CERAMIC CHIP 0.47MF	20% 20%	50V 16V 50V 16V 25V
C249 C250 C251 C254 C255	1-124-902-00 1-163-129-00 1-126-320-11 1-163-133-00 1-163-133-00	CERAMIC CHIP 330PF ELECT 10MF CERAMIC CHIP 470PF	20% 5% 20% 5% 5%	50V 50V 16V 50V 50V	C412 C421 C422 C423 C424	1-124-910-11 1-124-910-11 1-106-367-00	ELECT 47MF	20% 20% 10% 5%	25V 50V 50V 400V 50V
C256 C257 C301 C302 C303	1-163-038-91	CERAMIC CHIP 470PF CERAMIC CHIP 470PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 2.2MF	5% 5%	50V 50V 25V 25V 16V	C425 C426 C427 C428 C429	1-124-910-11 1-164-346-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF	5% 20% 20%	50V 50V 16V 16V 16V

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARI
C501 C502 C503 C504 C505	1-124-907-11 1-124-902-00 1-130-487-00 1-163-031-11 1-136-598-11	ELECT 0.47M0 MYLAR 0.0221 CERAMIC CHIP 0.01M1	1F 5%	50V 50V 50V 50V 200V	CF581	1-577-611-11	LTER > OSCILALTOR, CERAMIC NNECTOR >	
C507 C508 C509 C510 C514	1-108-700-11 1-102-973-00 1-102-030-00 1-136-565-11	MYLAR 0.0471 CERAMIC 100PF CERAMIC 330PF	4F 10% 5% 10% 4F 3%	200V 50V 500V 1.4KV 50V	CN0001 CN0101 CN0103 CN0104 CN0105	*1-568-880-51 1-695-297-11 1-695-297-11 *1-568-880-51	PIN, CONNECTOR 5P CONNECTOR, BOARD TO BOARD 20P CONNECTOR, BOARD TO BOARD 20P	
C515 C517 C518 C520 C522	1-124-907-11	CERAMIC CHIP 0.01MI ELECT 22MF	20%	50V 50V 50V 50V 160V	CN0108 CN0109 CN0110 CN0113 CN0114	1-695-299-11		
C523 C524 C525 C526 C528		CERAMIC CHIP 0.01M CERAMIC CHIP 0.01M	20% ?	200V 16V 50V 50V 50V	CN0115 CN0116 CN0119 CN0120 CN0121	*1-568-879-11	,,,,,,,,,,,,	
C529 C530 C531 C532 C536	1-164-299-11	CERAMIC CHIP 0.22M CERAMIC CHIP 0.22M CERAMIC CHIP 220PF		16V 25V 25V 50V 50V	CN0122 CN0123 CN0124 CN0125 CN0126	*1-568-880-51 *1-568-880-51 *1-568-880-51	PIN, CONNECTOR (PC BOARD) 5P PIN, CONNECTOR 5P PIN, CONNECTOR 5P PIN, CONNECTOR 5P PLUG, CONNECTOR 8P	
C537 C539 C542 C543 C544	1-163-031-11		?	50V 50V 50V 50V 50V	CN0127 CN0128 CN0129 CN0131 CN0132	*1-564-512-11 *1-568-882-51 1-508-784-00 *1-568-879-11 1-766-281-21	PIN, CONNECTOR 7P PIN, CONNECTOR (5MM PITCH) 1P PIN, CONNECTOR 4P	
C545 C557 C569 C574 C575	1-102-030-00 1-123-935-00 1-163-117-00	ELECT 33MF	10% 20% 5%	50V 500V 160V 50V 25V	CN0133 CN0134 CN0135 CN0161	*1-564-513-11 *1-568-880-51 1-508-786-00 1-695-915-11	PIN, CONNECTOR 5P PIN, CONNECTOR (5MM PITCH) 2P TAB (CONTACT)	
C576 C577 C578 C579 C580	1-124-910-11	CERAMIC CHIP 10PF CERAMIC CHIP 0.01M	5% ? 20 %	25V 50V 50V 50V 50V	D068 D069 D071 D073		DIODE RD5.6ESB2 DIODE RD5.6ESB2	
C581 C582 C583 C585 C586		ELECT 22MF	20% 5% MF 10%	50V 50V 50V 50V 50V	D077 D078 D079 D101 D206	8-719-914-43 8-719-109-89 8-719-109-89 8-719-982-27 8-719-914-43	DIODE DAN202K DIODE RD5.6ESB2 DIODE RD5.6ESB2 DIODE MTZJ-33C	
C587 C588 C589 C590 C591	1-124-903-11 1-164-346-11 1-126-103-11 1-124-916-11 1-124-925-11	CERAMIC CHIP 1MF ELECT 470MF ELECT 22MF	20% 20% 20% 20%	50V 16V 16V 50V 50V	D207 D208 D209 D210 D211	8-719-921-89 8-719-914-43 8-719-901-33 8-719-901-33 8-719-901-33	DIODE MTZJ-13C DIODE DAN202K DIODE 1SS133 DIODE 1SS133	
C592 C593 C595 C599 C680	1-164-232-11 1-128-526-11	CERAMIC CHIP 0.003 CERAMIC CHIP 47PF CERAMIC CHIP 0.01M ELECT 100MF	3MF 10% 5% F 10% 20%	50V 50V 50V 50V 25V	D212 D213 D301 D304 D305	8-719-901-33 8-719-914-43 8-719-914-43 8-719-109-89 8-719-914-43	DIODE 1SS133 DIODE DAN202K DIODE DAN202K DIODE RD5.6ESB2	
C682 C684 C685 C686 C687	1-126-101-11 1-126-101-11 1-124-122-11 1-124-916-11 1-124-916-11	ELECT 100MF ELECT 100MF ELECT 22MF	20% 20% 20% 20% 20%	16V 16V 50V 50V 50V	D306 D307 D308 D311 D381	8-719-800-76 8-719-800-76	DIODE DAN202K DIODE 1SS226	



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REF.NO.	PART NO.	DESCRIPTION	REMARK	<u>ref.no</u> .	PART NO.	DESCRIPTION	REMARK
D401 D403 D405 D406 D407	8-719-110-14 8-719-110-14 8-719-110-14	DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RD9.1ESB3		L502 L505 L507 L575 L610	1-410-645-31 1-459-313-00 1-459-313-00 1-408-397-00 1-412-539-41	COIL WITH CORE (HWC) COIL WITH CORE (HWC) INDUCTOR 1UH	
D501 D502	8-719-971-20	DIODE ERC38-06 DIODE ERC38-06		L611	1-412-539-41	INDUCTOR 150UH	
D503 D504 D505	8-719-300-80 8-719-109-89 8-719-900-9 5	DIODE RU-1C DIODE RD5.6ESB2 DIODE V09G		Q071	< TRA 8-729-901-05	NSISTOR > TRANSISTOR DTA124EK	
D506 D508 D510 D512 D513	8-719-914-43 8-719-901-33	DIODE V09G DIODE DAN202K DIODE DAN202K DIODE 1SS133 DIODE DAN202K		Q101 Q102 Q103 Q104	8-729-216-22 8-729-901-00 8-729-900-53 8-729-216-22 8-729-900-53	TRANSISTOR DTC124EK TRANSISTOR DTC114EK TRANSISTOR 2SA1162-G	
D514 D522 D523 D524 D525	8-719-914-43 8-719-914-43 8-719-914-43 8-719-914-43	DIODE DAN202K DIODE DAN202K DIODE DAN202K DIODE DAN202K		Q201 Q202 Q203 Q204	8-729-920-74 8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2412K-QF TRANSISTOR 2SC2412K-QF TRANSISTOR 2SC2412K-QF TRANSISTOR 2SA1162-G	}
D526 D555 D571 D615	8-719-914-43 8-719-914-43 8-719-800-76	DIODE DAN202K DIODE DAN202K DIODE DAN202K DIODE 1SS226 DIODE MTZJ-13B		Q205 Q206 Q207 Q209 Q210	8-729-216-22 8-729-216-22 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QF TRANSISTOR 2SC2412K-QF	}
D616	8-719-921-88 < IC	DIODE MTZJ-13B		Q301 Q302 Q303	8-729-901-00 8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
IC001 IC005 IC072 IC201 IC202		IC CX-7948A IC CXA1656S IC ST24C16CB1 IC TDA6612-5 IC TDA2822M		Q304 Q305 Q306 Q308 Q309	8-729-900-53 8-729-901-01 8-729-216-22 8-729-216-22 8-729-931-02	TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
IC251 IC261	8-759-072-99 4-200-001-11 8-759-072-99	IC TDA2052 HOLDER, IC ; IC251		Q310 Q311 Q312	8-729-901-00 8-729-901-06 8-729-900-53	TRANSISTOR DTA144EK	
IC301	4-200-001-11 8-759-189-90	HOLDER, IC; IC261 IC TDA9145/N2B		Q401 Q402 Q403	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QF TRANSISTOR 2SC2412K-QF TRANSISTOR 2SC2412K-QF	₹ ₹
IC302 IC304 IC401 IC402	8-752-056-54 8-752-068-46	IC TDA4661/V2 IC CXA15878 IC CXA18558		Q404 Q501	8-729-119-80		ł
IC502 IC681	8-759-073-00 8-752-057-18 8-759-231-58	IC CXA1315P		Q502 Q503 Q504	8-729-016-32 4-382-854-11 8-729-216-22 8-729-920-74	SCREW (M3X10), P, SW (TRANSISTOR 2SA1162-G	
IC682	4-382-854-11 8-759-279-71	SCREW (M3X10), P, SW (+ IC UPD6600AGS-B50 SCREW (M3X10), P, SW (+		Q505 Q506	8-729-201-32 8-729-201-32	TRANSISTOR 2SA1013-0 TRANSISTOR 2SA1013-0	`
IC683		IC NJM78M09FA SPRING, IC ; IC683		Q507 Q508	8-729-304-92 8-729-204-16	TRANSISTOR 2SA1301-0	
	< IF	BLOCK >		Q509	4-363-414-00 4-382-854-11 8-729-920-74	SCREW (M3X10), P, SW	
IFB101	1-467-573-11	IF BLOCK (IFH-389FX)	·	Q510		TRANSISTOR 2SC2412K-QF	
	< COI	L >		Q511	8-729-920-74		₹
L101 L102 L201 L306	1-412-546-41 1-408-413-00 1-410-067-21 1-408-405-00	INDUCTOR 22UH INDUCTOR 4.7MMH INDUCTOR 4.7UH		Q515 Q516 Q517 Q518	8-729-216-22 8-729-216-22 8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QF	
L307 L308 L501	1-408-405-00 1-408-417-00 1-460-196-11		ITY	Q519 Q520 Q521 Q522	8-729-920-74	TRANSISTOR 2SC2412K-QF	₹ ₹

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REF.NO.	PART NO.	DESCRIPTION	N	REMARK	REF.NO.	PART NO.	DESCRIPTIO	Ν .		REMARK
								-		
Q524	8-729-920-74	TRANSISTOR 2S	C2412K-QR		JR62	1-216-295-91	METAL GLAZE	0	5%	1/10W
Q525	8-729-901-00	TRANSISTOR DT	C124EK		JR63	1-216-296-00	METAL GLAZE	Ô	5%	1/8W
Q581	8-729-920-74	TRANSISTOR 2S	C2412K-QR		JR64	1-216-296-00	METAL GLAZE	Ō	5%	1/8W
Q582	8-729-216-22	TRANSISTOR 2S								
Q599	8-729-920-74	TRANSISTOR 2S	SC2412K-QR		JR65	1-216-296-00	METAL GLAZE	0	5%	1/8W
0511	0 500 000 50	501114747AD DE			JR66	1-216-296-00	METAL GLAZE	0	5%	1/8W
Q611	8-729-900-53	TRANSISTOR DT	C114EK		JR67	1-216-296-00	METAL GLAZE	0	5%	1/8W
	, nac	TOMOD .			JR68	1-216-296-00	METAL GLAZE	0	5%	1/8W
	< RES	SISTOR >			JR69	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR1	1-216-296-00	METAL GLAZE	0 5%	1/8W	TD70	1 216 206 00	MEMAT OF ARE	۸	EQ.	1 /024
JR2	1-216-296-00	METAL GLAZE	0 5%	1/8W	JR70	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR3	1-216-295-91	METAL GLAZE	0 5%	1/0W	JR71 JR72	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W
JR4	1-216-296-00	METAL GLAZE	0 5%	1/8W	JR74	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR5	1-216-296-00	METAL GLAZE	0 5%	1/8W	JR75	1-216-296-00	METAL GLAZE	Õ	5%	1/8W
				-, -, -	•			•	J.	27011
JR6	1-216-296-00	METAL GLAZE	0 5%	1/8W	JR76	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR7	1-216-295-91	METAL GLAZE	0 5%	1/10W	JR77	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR8	1-216-296-00	METAL GLAZE	0 5%	1/8W	JR78	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR9	1-216-295-91	METAL GLAZE	0 5%	1/10W	JR80	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR10	1-216-295-91	METAL GLAZE	0 5%	1/10W	JR81	1-216-296-00	METAL GLAZE	0	5%	1/8W
	4 044 000 00		_ =-	4.000				_		
JR11	1-216-296-00	METAL GLAZE	0 5%	1/8W	JR82	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR12	1-216-296-00	METAL GLAZE	0 5%	1/8W	JR83	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR13	1-216-296-00	METAL GLAZE	0 5%	1/8W	JR87	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR14 JR15	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W	JR100	1-216-073-00	METAL GLAZE	10K	5%	1/10W
UKIJ	1-210-230-00	METAL GLAZE	0 5%	1/8W	JR103	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR16	1-216-296-00	METAL GLAZE	0 5%	1/8W	JR110	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR17	1-216-295-91	METAL GLAZE	0 5%	1/10W	JR130	1-216-295-91	METAL GLAZE	Ö	5%	1/10W 1/10W
JR18	1-216-295-91		0 5%	1/10W	JR234	1-216-295-91	METAL GLAZE	Ŏ	5%	1/10W
JR19	1-216-295-91	METAL GLAZE	0 5%	1/10W	JR403	1-216-295-91	METAL GLAZE	Ŏ	5%	1/10W
JR21	1-216-296-00	METAL GLAZE	0 . 5%	1/8W				•	•	-,,
					R001	1-216-341-11	METAL OXIDE	0.22	5%	1W F
JR22	1-216-295-91		0 5%	1/10W	R071	1-216-041-00	METAL GLAZE	470	5%	1/10W
JR23	1-216-295-91		0 5%	1/10W	R072	1-216-033-00	METAL GLAZE	220	5%	1/10W
JR24	1-216-295-91		0 5%	1/10W	R073	1-216-033-00	METAL GLAZE	220	5%	1/10W
JR25	1-216-296-00	METAL GLAZE	0 5%	1/8W	R074	1-216-198-91	METAL GLAZE	1K	5%	1/8W
JR26	1-216-295-91	METAL GLAZE	0 5%	1/10W	-056	4 046 055 00				4 44 444
TD 0.7	1 016 005 01	10001 01100	Δ 50.	1 /1 0***	R076	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JR27 JR28	1-216-295-91 1-216-295-91	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/10W 1/10W	R077	1-216-025-00	METAL GLAZE	100	5%	1/10W
JR29	1-216-295-91		0 5%	1/10W 1/10W	R100 R101	1-216-097-00 1-216-025-00	METAL GLAZE METAL GLAZE	100K 100	5% 5 %	1/10W 1/10W
JR30	1-216-295-91	METAL GLAZE	0 5%	1/10W	R101	1-216-025-00	METAL GLAZE	1K	5%	1/10W
JR31	1-216-295-91		0 5%	1/10W	MIVE	1 210 049 00	METAL GEALE	111	3.0	1/108
55.52				2, 2011	R104	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR32	1-216-295-91	METAL GLAZE	0 5%	1/10W	R105	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR33	1-216-295-91	METAL GLAZE	0 5%	1/10W	R106	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR34	1-216-296-00		0 5%	1/8W	R107	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
JR35	1-216-296-00		0 5%	1/8W	R108	1-216-230-00	METAL GLAZE	22K	5%	1/8W
JR36	1-216-295-91	METAL GLAZE	0 5%	1/10W						
TD 27	1 216 206 00	WEMAT OF SEE	0 50.	1 /0m	R115	1-216-210-00		3.3K		1/8W
JR37	1-216-296-00		0 5%	1/8W	R201	1-208-784-11				1/10W
JR38 JR39	1-216-296-00 1-216-295-91		0 5% 0 5%	1/8W	R202	1-208-784-11				1/10W
JR40	1-216-295-91		0 5% 0 5%	1/10W 1/10W	R203 R204	1-216-067-00			5%	1/10W
JR41	1-216-296-00		0 5%	1/8W	R204	1-216-091-00	METAL GLAZE	56K	5%	1/10W
OME	1 210 250 00	HEIRE CEREE	0 3-6	1/0#	R205	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR42	1-216-296-00	METAL GLAZE	0 5%	1/8W	R206	1-216-295-91		Ŏ	5%	1/10W
JR43	1-216-296-00		0 5%	1/8W	R207	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR44	1-216-296-00	METAL GLAZE	0 5%	1/8W	R208	1-216-073-00		10K	5%	1/10W
JR47	1-216-296-00		0 5%	1/8W	R209	1-249-377-11		0.47	5%	1/4W F
JR48	1-216-295-91	METAL GLAZE	0 5%	1/10W						
	4 044 004 1			4 1000	R210	1-247-739-11		100	5%	1/2W
JR54	1-216-296-00		0 5%	1/8W	R211	1-247-739-11		100	5%	1/2W
JR55	1-216-296-00		0 5%	1/8W	R212	1-216-049-00		1K	5%	1/10W
JR56 JR57	1-216-296-00 1-216-295-91		0 5% 0 5%	1/8W 1/10W	R213	1-216-073-00		10K	5%	1/10W
JR58	1-216-295-91		0 5% 0 5%	1/10W 1/10W	R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W
01/10	T-810-833-31	WRIND ADVOR	0 5%	T/ TAM	R215	1-216-073-00	Μ ጀጥል፤. <i>C</i> ፤ አማዋ	10K	5%	1/10W
JR60	1-216-296-00	METAL GLAZE	0 5%	1/8W	R215	1-216-049-00		10K	5%	1/10W 1/10W
JR61	1-216-296-00	METAL GLAZE	0 5%	1/8W	R217	1-216-043-91		560	5%	1/10W
	3 === 200 00			-, •		T NTO 020)T	JUNUU	500	5.0	_, _VII



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REF.NO.	PART NO.	DESCRIPTION	<u> </u>		REMARK	REF.NO.	PART NO.	DESCRIPTION	<u> </u>		REMARK	
R218 R221	1-216-081-00 1-212-849-00	METAL GLAZE FUSIBLE	22K 4.7	5% 5%	1/10W 1/4W F	R321 R322	1-216-039-00 1-216-041-00	METAL GLAZE METAL GLAZE	390 470	5% 5%	1/10W 1/10W	
R222 R223 R224 R225 R226	1-216-049-00 1-216-043-91 1-216-081-00 1-212-849-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE FUSIBLE METAL GLAZE	1K 560 22K 4.7 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W F 1/10W	R324 R325 R326 R328 R329	1-216-049-00 1-216-047-00 1-216-073-00 1-216-029-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 820 10K 150 82	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R227 R228 R229 R230 R231	1-216-081-00 1-216-081-00 1-216-039-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 390 100K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R330 R331 R333 R334 R335	1-216-053-00 1-216-097-00 1-216-182-00 1-216-182-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 100K 220 220 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/10W	
R232 R233 R234 R235 R236	1-216-081-00 1-216-071-00 1-216-069-00 1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 8.2K 6.8K 10K 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R336 R337 R338 R339 R340	1-216-295-91 1-216-295-91 1-216-295-91 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 100 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R237 R238 R239 R241 R242	1-216-025-00 1-216-025-00 1-216-295-91 1-216-065-00 1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 0 4.7K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W	R341 R342 R343 R344 R345	1-216-025-00 1-216-033-00 1-216-022-00 1-216-022-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 220 75 75 75	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R244 R245 R246 R247 R248	1-216-069-00 1-216-089-00 1-216-097-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 47K 100K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R346 R347 R351 R352 R354	1-216-022-00 1-216-083-00 1-216-073-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 27K 10K 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R249 R250 R251 R252 R253	1-216-045-00 1-216-095-00 1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 82K 4.7K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R355 R356 R357 R358 R359	1-216-033-00 1-216-033-00 1-216-041-00 1-216-031-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 470 180 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R254 R255 R256 R257 R258	1-216-252-00 1-216-252-00 1-216-182-00 1-216-182-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180K 180K 220 220 47K	5% 5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/10W	R360 R361 R362 R365 R366	1-216-033-00 1-216-033-00 1-216-077-00 1-216-073-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 15K 10K 5.6K	5% 5 % 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R259 R260 R300 R301 R302	1-216-049-00 1-216-049-00 1-216-009-00 1-216-041-00 1-216-190-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 22 470 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W	R367 R368 R369 R370 R371	1-216-296-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 220 220 220 220	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	
R303 R304 R305 R306 R307	1-216-174-00 1-216-174-00 1-216-035-00 1-216-035-00 1-216-075-00	METAL GLAZE METAL GLAZE	100 100 270 270 12K	5% 5% 5% 5% 5%	1/8W 1/8W 1/10W 1/10W 1/10W	R373 R374 R376 R377 R378	1-216-017-00 1-216-041-00 1-216-065-00 1-216-051-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 470 4.7K 1.2K 2.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R308 R309 R310 R311 R312	1-216-121-00 1-216-001-00 1-216-001-00 1-216-065-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	1M 10 10 4.7K 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R379 R380 R381 R382 R383	1-216-057-00 1-216-057-00 1-216-164-00 1-216-164-00 1-216-164-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 39 39 39	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/8W	
R313 R314 R315 R316 R317	1-216-081-00 1-216-033-00 1-216-033-00 1-216-085-00 1-216-073-00	METAL GLAZE METAL GLAZE	22K 220 220 33K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R401 R402 R403 R404 R405	1-216-171-00 1-216-158-00 1-216-025-00 1-216-158-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 22 100 22 100	5% 5% 5% 5% 5%	1/8W 1/8W 1/10W 1/8W 1/10W	
R318 R319 R320	1-216-041-00 1-216-041-00 1-216-174-00	METAL GLAZE	470 470 100	5% 5% 5%	1/10W 1/10W 1/8W	R406 R407 R408	1-216-158-00 1-216-025-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE	22 100 68K	5% 5% 5%	1/8W 1/10W 1/10W	

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REF.NO.	DADT NO	DECCDIDIO	NA .	DEMARK						
NEF.NV.	PART NO.	DESCRIPTIO	<u>אל</u>	REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK
R410 R411	1-216-067-00 1-216-067-00	METAL GLAZE METAL GLAZE	5.6K 5% 5.6K 5%	1/10W 1/10W	R552 R553	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	10K 2.2K	5% 1/10W 5% 1/10W	
R412 R413 R414 R416 R417	1-216-171-00 1-216-171-00 1-216-171-00 1-216-113-00 1-216-063-00		75 5% 75 5% 75 5% 470K 5% 3.9K 5%	1/8W 1/8W 1/8W 1/10W 1/10W	R554 R555 R556 R558 R563	1-216-121-00 1-249-421-11 1-216-049-00 1-249-385-11 1-216-097-00	METAL GLAZE CARBON METAL GLAZE CARBON METAL GLAZE	1M 2.2K 1K 2.2 100K	5% 1/10W 5% 1/4W 5% 1/10W 5% 1/4W 5% 1/10W	F F
R419 R420 R423 R424 R425	1-216-113-00 1-216-063-00 1-216-015-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 3.9K 5% 39 5% 100 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R564 R565 R566 R567 R568	1-216-073-00 1-216-055-00 1-216-045-00 1-216-045-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1.8K 680 680 680	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	! ! !
R426 R427 R428 R470 R501	1-216-025-00 1-216-025-00 1-249-393-11 1-216-113-00 1-247-895-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE CARBON	100 5% 100 5% 10 5% 470K 5% 470K 5%	1/10W 1/10W 1/4W F 1/10W 1/4W	R569 R570 R571 R572 R573	1-216-055-00 1-216-009-00 1-216-009-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 22 22 1K 10K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	! !
R502 R503 R504 R505 R506	1-249-377-11 1-249-377-11 1-249-417-11 1-249-419-11 1-215-920-11	CARBON CARBON CARBON CARBON METAL OXIDE	0.47 5% 0.47 5% 1K 5% 1.5K 5% 3.3K 5%	1/4W F 1/4W F 1/4W 1/4W 3W F	R574 R575 R576 R577 R579	1-216-041-00 1-216-186-00 1-216-025-00 1-216-025-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 330 100 100 6.8K	5% 1/10W 5% 1/8W 5% 1/10W 5% 1/10W 5% 1/10W	!
R507 R508 R509 R510 R511	1-249-429-11 1-216-372-11 1-216-478-11 1-216-073-00 1-247-811-31	CARBON METAL OXIDE METAL OXIDE METAL GLAZE CARBON	10K 5% 1.8 5% 390 5% 10K 5% 150 5%	1/4W F 2W F 3W F 1/10W 1/4W	R580 R581 R582 R583 R584	1-216-049-00 1-216-033-00 1-216-037-00 1-216-055-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	
R513 R514 R515 R516 R517	1-216-049-00 1-215-877-11 1-249-430-11 1-249-417-11 1-249-426-11	METAL GLAZE METAL OXIDE CARBON CARBON CARBON	1K 5% 22K 5% 12K 5% 1K 5% 5.6K 5%	1/10W 1W F 1/4W F 1/4W 1/4W F	R585 R586 R587 R588 R589	1-216-073-00 1-216-047-00 1-216-047-00 1-216-101-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	
R518 R519 R520 R521 R522	1-249-425-11 1-249-417-11 1-215-925-11 1-215-877-11 1-216-057-00	CARBON CARBON METAL OXIDE METAL OXIDE METAL GLAZE	4.7K 5% 1K 5% 22K 5% 22K 5% 2.2K 5%	1/4W F 1/4W F 3W F 1W F 1/10W	R590 R591 R592 R593 R594	1-216-049-00 1-216-073-00 1-216-083-00 1-216-071-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 27K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	
R523 R524 R525 R526 R527	1-216-083-00 1-216-083-00 1-216-097-00 1-216-067-00 1-249-429-11	METAL GLAZE METAL GLAZE	27K 5% 27K 5% 100K 5% 5.6K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/4W	R595 R596 R597 R598 R600	1-208-774-11 1-216-067-00 1-216-230-00 1-216-053-00 1-216-174-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 22K 1.5K	5% 1/8W	ı
R528 R531 R532 R533 R536	1-216-059-00 1-216-077-00 1-249-385-11 1-216-033-00 1-216-476-11	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL OXIDE	2.7K 5% 15K 5% 2.2 5% 220 5% 180 5%	1/10W 1/10W 1/4W F 1/10W 3W F	R606 R609 R610 R611 R613	1-216-049-00 1-216-689-11 1-216-049-00 1-216-295-91 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39K 1K 0	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	
R537 R540 R541 R542 R543	1-216-476-11 1-216-049-00 1-216-081-00 1-216-081-00 1-216-049-00	METAL GLAZE	180 5% 1K 5% 22K 5% 22K 5% 1K 5%	3W F 1/10W 1/10W 1/10W 1/10W	R614 R618 R620 R621 R624	1-216-061-00 1-216-065-00 1-216-399-00	METAL GLAZE METAL GLAZE	3.3K 4.7K 6.8	5% 1/10W	F
R544 R545 R546 R547 R548	1-216-049-00 1-216-049-00 1-216-083-00 1-216-067-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 1K 5% 27K 5% 5.6K 5% 15K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R625 R626 R627 R628 R629	1-216-081-00 1-216-033-00 1-216-033-00 1-215-866-11 1-216-488-11	METAL GLAZE METAL OXIDE	220 220 330	5% 1/10W 5% 1/10W 5% 1/10W 5% 1W 5% 3W	
R549 R550 R551	1-216-073-00 1-249-385-11 1-216-077-00	METAL GLAZE CARBON METAL GLAZE	10K 5% 2.2 5% 15K 5%	1/10W 1/4W F 1/10W	R631 R632 R636	1-216-055-00 1-216-051-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.2K	5% 1/10W 5% 1/10W 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>N</u>		REMARK
R638 R640	1-216-009-00 1-216-081-00	METAL GLAZE 22 5% METAL GLAZE 22K 5%	1/10W 1/10W	C151	1-124-477-11	ELECT	47MF	20%	16V
R641 R642 R643 R644 R645	1-216-073-00 1-216-295-91 1-216-073-00 1-215-912-11 1-215-912-11	METAL GLAZE 0 5% METAL GLAZE 10K 5% METAL OXIDE 150 5%	1/10W 1/10W 1/10W 3W F 3W F	C152 C161 C162 C173 C174		ELECT		20% 20% 20% 10% 0.5PF	16V 16V 16V 50V 50V
R646 R650 R651 R655 R656	1-216-073-00 1-216-055-00 1-216-055-00 1-216-083-00 1-216-089-00	METAL GLAZE 10K 5% METAL GLAZE 1.8K 5% METAL GLAZE 1.8K 5% METAL GLAZE 27K 5%	1/10W 1/10W 1/10W 1/10W	C175 C177 C191 C201 C202	1-164-004-11 1-164-232-11 1-164-346-11 1-164-232-11		0.1MF 0.01MF 1MF 0.01MF	0.5PF 10% 10% 10%	50V 25V 50V 16V 50V
R657 R1520 R2219 R2220 R2221	1-216-238-91 1-249-429-11 1-216-174-00 1-216-174-00 1-216-174-00	CARBON 10K 5% METAL GLAZE 100 5% METAL GLAZE 100 5%	1/4W 1/8W 1/8W	C203 C204 C205 C206 C207	1-164-161-11 1-163-251-11 1-164-222-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0022MF 100PF 0.22MF	20% 10% 5%	16V 16V 50V 50V 25V
R2222	1-216-174-00 < TRA	METAL GLAZE 100 5% ANSFORMER >	1/8W	C302 C502 C503	1-164-232-11 1-124-477-11 1-164-232-11	CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 47MF 0.01MF	10% 20% 10%	50V 16V 50V
T501 T502		TRANSFORMER, FERRITE TRANSFORMER, HORIZONTA	קיינות .	C901 C902	1-124-477-11	CERAMIC CHIP	47MF	20% 10%	16V 50V
1302	- 437 - 676 - 60 < TO	·	D DRIVE	C302		TER >	U.UIMF	10-0	301
TU101		TUNER (UV916H)		CF171		FILTER, CERAN	ato.		
10101		YSTAL >		CF172 CF173	1-567-101-11 1-760-107-21	FILTER, CERAN	MIC MIC		
X302 X501		VIBRATOR, CRYSTAL VIBRATOR, CERAMIC		CF174 SWF101	1-579-273-11	FILTER, CERAN	ACE WAVE		
*****	******	*******	********** *	SWF103		FILTER, SURFA	ACE WAVE		
	1-467-573-11	IF BLOCK (IFH-389FX)		CN1		NECTOR > PIN, CONNECTO	OR (PC BOARI	D) 10P	
	< CA	PACITOR >		CN2		PIN, CONNECTO			
C101		CERAMIC CHIP 0.0047MF	10% 50V		< TRI	IMMER >			
C102 C104 C111	1-164-232-11 1-163-017-00 1-164-004-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.1MF	10% 50V 10% 50V 10% 25V	CT101 CT131	1-760-154-21 1-409-430-11	TRAP, CERAMIC	2		
C112	1-163-133-00	CERAMIC CHIP 470PF	5% 50V		< DIC	DDE >			
C113 C114 C115 C116 C117	1-124-925-11 1-124-916-11 1-124-916-11	ELECT 22MF	10% 16V 20% 50V 20% 50V 20% 50V 0.25PF 50V	D101 D171 D201	8-719-914-43	DIODE DAN2021 DIODE DAN2021 DIODE DAN2021	K		
C120 C121 C122 C123 C126	1-164-232-11		20% 50V 20% 50V 10% 16V 10% 50V 0.25PF 50V	IC1 IC2 IC3 IC4		IC BA7046 IC CXA1875M IC NJM2233BM			
C128		CERAMIC CHIP 0.22MF	10% 16V		< COI	ΓΓ >			
C131 C132 C133 C134	1-163-097-00 1-163-113-00 1-163-239-11	CERAMIC CHIP 68PF CERAMIC CHIP 15PF CERAMIC CHIP 68PF CERAMIC CHIP 33PF	5% 50V 5% 50V 5% 50V 5% 50V	L101 L102 L131 L132 L142	1-408-419-00 1-410-985-11 1-408-407-00 1-410-426-21 1-408-409-00	INDUCTOR CHIS INDUCTOR INDUCTOR	68UH P 0.22UH 6.8UH 39UH 10UH		
C135 C141 C143 C145		CERAMIC CHIP 82PF CERAMIC CHIP 100PF	20% 16V 5% 50V 5% 50V 20% 16V	L171 L201 L501	1-408-609-41 1-408-419-00 1-408-411-00	INDUCTOR	33UH 68UH 15UH		

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REF.NO.	PART NO.	DESCRIPTION	ON	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
L901	1-408-411-00	INDUCTOR	15UH		JR137	1-216-296-91	METAL GLAZE	_ 0 5	5%	1/8W
					-400					4 14
	< TRA	ANSISTOR >			JR138	1-216-296-91 1-216-296-91				1/8W
Q101	8-729-104-80	MDANGTOWOD 2	0003355		JR140 JR141	1-216-296-91				1/8W 1/8W
Q102	8-729-901-01	TRANSISTOR Z	15C3333		JR142	1-216-295-91		-		1/10W
Q104	8-729-901-01	TRANSISTOR I	OTC144EK		JR143	1-216-296-91				1/8W
0121	8-729-216-22	TRANSISTOR 2	2SA1162-G					•	, ,	2, 0
Q131	8-729-920-74	TRANSISTOR 2	2SC2412K-OR		JR145	1-216-296-91	METAL GLAZE	0 5	5%	1/8W
			•		JR146	1-216-295-91				1/10W
Q132	8-729-920-74	TRANSISTOR 2	SC2412K-QR		JR150	1-216-295-91	METAL GLAZE	0 5		1/10W
Q141	8 -729-920-7 4	TRANSISTOR 2	2SC2412K-QR		JR152	1-216-296-91				1/8W
Q142	8-729-920-74	TRANSISTOR 2	SC2412K-QR		JR154	1-216-296-91	METAL GLAZE	0 5	5%	1/8W
Q151	8-729-920-74	TRANSISTOR 2	2SC2412K-QR			4 046 006 04			-^	4 / 00-
Q152	8-129-920-14	TRANSISTOR 2	2SC2412K-QR		JR160	1-216-296-91				1/8W
Q153	9_720_020_7/	MDANGTOMOD C	0000410W_0B	1	ĴR161 JR162	1-216-295-91 1-216-295-91				1/10W 1/10W
Q153	8-729-901-01	TRANSISION 2	25C2412K-QK	4	JR166	1-216-295-91				1/10W
Q161	8-729-920-74	TRANSISTOR 2	2SC2412K-0R	•	JR167	1-216-296-91				1/8W
Q162	8-729-920-74	TRANSISTOR 2	SC2412K-OR		OM207	1 110 130 31				2,011
Q171	8-729-216-22	TRANSISTOR 2	2SA1162-G		R100	1-216-025-00	METAL GLAZE	100	5%	1/10W
					R102	1-216-059-00				1/10W
Q174	8-729-901-01	TRANSISTOR I	OTC144EK		R103	1-216-001-00				1/10W
Q175	8-729-901-01	TRANSISTOR I	OTC144EK		R104	1-216-176-11				1/8W
Q176	8-729-901-01	TRANSISTOR I	OTC144EK		R105	1-216-017-00	METAL GLAZE	47	5%	1/10W
Q181	8-729-901-01 8-729-901-01 8-729-901-01 8-729-920-74 8-729-216-22	TRANSISTOR 2	2SC2412K-QR		7106	1 016 055 00				4 /4 0==
Q191	8-729-210-22	TRANSISTOR 2	2SA1162-G		R106	1-216-057-00		2.2K 5		1/10W
Q201		TRANSISTOR 2			R107 R109	1-216-057-00 1-216-057-00				1/10W 1/10W
Q201	0-723-210-22	INMIDIDION 2	2011102-G		R111	1-216-295-91				1/10W
	< RES	SISTOR >	•		R113	1-216-031-00				1/10W
									•	-,
JR101		METAL GLAZE		1/10W	R114	1-216-035-00				1/10W
JR102		METAL GLAZE		1/8W	R115	1-216-035-00				1/10W
JR103		METAL GLAZE		1/8W	R116	1-216-025-00				1/10W
JR104		METAL GLAZE		1/10W	R117	1-216-031-00	METAL GLAZE			1/10W
JR106	1-216-296-91	METAL GLAZE	0 5%	1/8W	R118	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
JR107	1-216-295-91	METAL GLAZE	0 5%	1/10W	R120	1-216-180-00	MRTAL GLAZE	180	5%	1/8W
JR109		METAL GLAZE		1/10W	R131	1-216-198-91				1/8W
JR110		METAL GLAZE		1/10W	R133	1-216-031-00				1/10W
JR111	1-216-296-91	METAL GLAZE	0 5%	1/8W	R134	1-216-049-00				1/10W
JR112	1-216-295-91	METAL GLAZE	0 5%	1/10W	R135	1-216-295-91	METAL GLAZE	0 5	5%	1/10W
	1 016 006 01		A 50	4 / 4.00	-406	4 046 044 00		.=.		4 /4 400
JR113 JR114	1-216-296-91	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/10W	R136 R137	1-216-041-00				1/10W
JR115	1-216-295-91	METAL GLAZE	0 5% 0 5%	1/10W	R137	1-216-041-00 1-216-049-00	METAL GLAZE			1/10W 1/10W
JR116		METAL GLAZE		1/8W	R130	1-216-067-00		5.6K		1/10W 1/10W
JR117		METAL GLAZE		1/8W	R140	1-216-295-91				1/10W
V			•	2, 0		1 220 255 51		•	•	1, 2011
JR118		METAL GLAZE	0 5%	1/8W	R142	1-216-049-00	METAL GLAZE	1K !	5%	1/10W
JR119		METAL GLAZE	0 5%	1/8W	R144	1-216-041-00	METAL GLAZE	470 !	5%	1/10W
JR120		METAL GLAZE		1/10W	R145	1-216-041-00				1/10W
JR121		METAL GLAZE		1/8W	R146	1-216-043-00				1/10W
JR122	1-216-296-91	METAL GLAZE	0 5%	1/8W	R147	1-216-025-00	METAL GLAZE	100	5%	1/10W
JR123	1-216-296-91	METAL GLAZE	0 5%	1/8W	R148	1-216-049-00	METAL GLAZE	1K !	5%	1/10W
JR124		METAL GLAZE	0 5%	1/8W	R149	1-216-049-00				1/10W
JR125		METAL GLAZE		1/10W	R151		METAL GLAZE			1/8W
JR126	1-216-295-91	METAL GLAZE	0 5%	1/10W	R152	1-216-069-00	METAL GLAZE	6.8K		1/10W
JR127	1-216-296-91	METAL GLAZE	0 5%	1/8W	R153	1-216-689-11	METAL GLAZE			1/10W
TD100	1 016 005 01	MDMAT CTACE	A F0.	1 /1 0m	D154	1 016 055 00	VDD31 0115	0.0-	F0.	1 /1 0**
JR128 JR129		METAL GLAZE METAL GLAZE	0 5% 0 5%	1/10W 1/10W	R154 R155	1-216-057-00	METAL GLAZE	2.2K ! 2.2K !		1/10W
JR130		METAL GLAZE		1/10W 1/8W	R156		METAL GLAZE			1/10W 1/10W
JR131		METAL GLAZE		1/8W	R161		METAL GLAZE			1/10W 1/10W
JR132		METAL GLAZE		1/8W	R162		METAL GLAZE	6.8K		1/10W
				=• =		000				
JR133		METAL GLAZE		1/8W	R163		METAL GLAZE			1/10W
JR134		METAL GLAZE		1/10W	R164		METAL GLAZE	2.2K		1/10W
JR135		METAL GLAZE		1/8W	R165		METAL GLAZE	2.2K		1/10W
JR136	1-216-295-91	METAL GLAZE	0 5%	1/10W	R166	1-216-037-00	METAL GLAZE	330	5%	1/10W

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DEENO	DADT NO	J DECORIDATION							
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R167 R168	1-216-073-00 1-216-212-00		10K 5% 3.9K 5%	1/10W 1/8W	C018 C019 C020	1-164-505-11 1-124-916-11 1-163-117-00	CERAMIC CHIP 2.2MF ELECT 22MF CERAMIC CHIP 100PF	20% 5%	16V 50V 50V
R169 R171 R177 R178	1-216-067-00 1-216-045-00 1-216-025-00	METAL GLAZE METAL GLAZE	5.6K 5% 680 5% 100 5%	1/10W 1/10W 1/10W	C022 C023	1-164-004-11 1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10%	25 V 25 V
R179 R180	1-216-057-00 1-216-057-00 1-216-057-00	METAL GLAZE	2.2K 5% 2.2K 5%	1/10W	C024 C025 C026	1-164-004-11 1-164-222-11 1-164-222-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF	10%	25V 25V 25V
R181 R182 R183	1-216-041-00 1-216-041-00 1-216-192-00	METAL GLAZE METAL GLAZE	2.2K 5% 470 5% 470 5% 560 5%	1/10W 1/10W 1/10W 1/8W	C032 C035	1-163-117-00 1-163-033-91 1-164-005-11		5%	50V 50V 25V
R184 R185	1-216-043-00 1-216-067-00	METAL GLAZE	560 5% 5.6K 5%	1/10W 1/10W	C037 C039 C042	1-163-117-00 1-163-011-11 1-162-638-11	CERAMIC CHIP 100PF CERAMIC CHIP 0.0015MF	5% 10%	50V 50V 16V
R191 R192 R193	1-216-093-00 1-216-093-00 1-216-065-00	METAL GLAZE	68K 5% 68K 5% 4.7K 5%	1/10W 1/10W 1/10W	C044	1-163-117-00	CERAMIC CHIP 100PF CERAMIC CHIP 0.001MF	5% 5%	50V
R194 R195 R201	1-216-049-00 1-216-216-00 1-216-198-91	METAL GLAZE	1K 5% 5.6K 5% 1K 5%	1/10W 1/8W 1/8W	C523 C524 C525 C528	1-163-141-00 1-163-113-00 1-164-222-11 1-163-105-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 68PF CERAMIC CHIP 0.22MF CERAMIC CHIP 33PF	5% 5% 5%	50V 50V 25V 50V
R202 R203	1-216-107-00 1-216-073-00	METAL GLAZE 2 METAL GLAZE 1	270K 5% 10K 5%	1/10W 1/10W	C529 C541	1-163-169-00 1-164-232-11	CERAMIC CHIP 33PF CERAMIC CHIP 0.01MF	5% 10%	50V 50V
R204 R205 R206 R207	1-216-113-00 1-218-755-11 1-216-049-00 1-216-113-00	METAL CHIP 1 METAL GLAZE 1	470K 5% 130K 0.5 1K 5% 470K 5%	1/10W . 0% 1/10W 1/10W 1/10W	C542 C543 C544	1-163-037-11 1-164-161-11 1-164-161-11	CERAMIC CHIP 0.0022MF	10% 10% 10%	25V 50V 50V
R208 R209	1-216-113-00	METAL GLAZE 4	470K 5% 1K 5%	1/10W 1/10W	C546 C547 C549	1-164-004-11 1-163-020-00 1-163-989-11		10% 10% 10%	25V 50V 25V
R210 R211 R301 R302	1-216-081-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE 1	22K 5% 10K 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W	C550 C559 C560	1-163-141-00 1-164-004-11 1-164-161-11		5% 10%	50V 25V
R303 R306 R308	1-216-049-00 1-216-049-00 1-216-073-00	METAL GLAZE 1	1K 5% 1K 5% 1OK 5%	1/10W 1/10W 1/10W	C563 C564 C565 C566	1-163-031-11 1-163-031-11 1-163-031-11 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10%	50V 50V 50V
R309 R310	1-216-025-00 1-216-025-00	METAL GLAZE 1 METAL GLAZE 1	100 5% 100 5%	1/10W 1/10W 1/10W	C567 C568	1-163-031-11 1-163-009-11 1-163-009-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	10% 10%	50V 50V 50V
RV111 RV112	1-241-786-11	RES, ADJ, CARBO RES, ADJ, CARBO	ON 22K	·	C569 C570 C571	1-164-161-11 1-162-568-11 1-163-038-91		10% 10%	50V 16V 25V
		NSFORMER >	A 22K		C2001 C2002 C2004	1-163-235-11	CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 0.22MF	5% 5%	50V 50V 25V
T111	1-403-686-22	**==			C2005 C2008	1-163-038-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF		25V 25V
		**************************************	LETE	******	C2016 C2017 C2018	1-164-222-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 2.2MF		25V 25V 16V
	< CAP	ACITOR >			C2019 C2020	1-124-916-11		20%	50V 25V
C001 C004 C007 C008 C010	1-164-222-11 1-163-117-00 1-163-117-00	CERAMIC CHIP 10 CERAMIC CHIP 10 CERAMIC CHIP 10 CERAMIC CHIP 10 CERAMIC CHIP 10	.22MF)0PF)0PF	5% 50V 25V 5% 50V 5% 50V 5% 50V	C2021 C2024 C2025 C2027	1-163-117-00 1-163-117-00	CERAMIC CHIP 68PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 0.22MF	5% 5% 5%	50V 50V 50V 25V
C011	1-163-117-00	CERAMIC CHIP 10	OPF	5% 50V		< FIL	TER >		
C012 C014 C016	1-163-117-00	CERAMIC CHIP 10 CERAMIC CHIP 10 CERAMIC CHIP 0.	OPF	5% 50V 5% 50V 5% 50V	CD001		VIBRATOR, CERAMIC NECTOR >		
C017		CERAMIC CHIP 0.		25V	CN1413		CONNECTOR, BOARD TO BOA	RD 40P	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
CN1426 CN1432 CN1435	*1-568-882-51 *1-568-881-51	PIN, CONNECTOR 6P PIN, CONNECTOR 7P PIN, CONNECTOR 6P		R020 R021 R022 R023	1-216-049-00 1-216-065-00 1-216-057-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 4.7K 5% 2.2K 5% 100 5%	1/10W 1/10W 1/10W 1/10W
	< DIO	DE >		R024	1-216-025-00	METAL GLAZE	100 5%	1/10W
D001 D2001 D2003 D2007		DIODE MA3039H DIODE MA3030-H DIODE DAP202K DIODE DAP202K		R025 R026 R027 R028 R030	1-216-049-00 1-216-049-00 1-216-049-00 1-216-677-11 1-216-049-00	METAL GLAZE METAL GLAZE METAL CHIP	1K 5% 1K 5% 1K 5% 12K 0.5 1K 5%	1/10W 1/10W 1/10W 50% 1/10W 1/10W
	< IC	>						
IC001 IC002 IC561 IC562	8-759-294-04 8-759-327-55 1-750-797-11 8-752-347-92 8-759-998-98	IC SDA30C163-2GEG IC TMS27PC010A15FMAE230 SOCKET, PLCC; IC002 IC CXD2018Q IC LM358D IC LM78L05ACZ IC SDA5273P-C22-GEG IC MB81C4256A-70PSZG L INDUCTOR 100UH		R032 R033 R034 R035 R038	1-216-049-00 1-216-049-00 1-216-057-00 1-216-057-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 1K 5% 2.2K 5% 2.2K 5% 10K 5%	1/10W 1/10W 1/10W
IC563 IC2002 IC2003	8-759-991-41 8-759-262-58 8-759-188-60	IC LM78L05ACZ IC SDA5273P-C22-GEG IC MB81C4256A-70PSZG		R049 R050 R051 R052 R053	1-216-049-00 1-216-073-00 1-216-081-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 10K 5% 22K 5% 10K 5% 4.7K 5%	1/10W 1/10W
	< COI	L >		R054	1-216-081-00	METAL GLAZE	22K 5%	1/10W
L001 L561 L562 L563 L2001	1-408-421-00 1-408-409-00 1-408-409-00 1-408-947-00 1-410-674-31	INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 2.2MMH		R055 R060 R067 R068	1-216-081-00 1-216-057-00 1-216-043-91 1-216-043-91	METAL GLAZE METAL GLAZE METAL GLAZE	22K 5% 2.2K 5% 2.2K 5% 560 5% 560 5%	1/10W 1/10W 1/10W
	< TRA	NSISTOR >		R069 R071	1-216-037-00 1-216-198-91		330 5% 1K 5%	
Q002				R535	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W
Q002 Q003 Q564 Q565	8-729-920-74 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR		R536 R538 R539	1-216-057-00 1-216-025-00	METAL GLAZE	2.2K 5% 100 5%	1/10W 1/10W
Q566	8-729-920-74	TRANSISTOR 2SC2412K-QR		R541	1-216-657-11 1-216-049-00	METAL GLAZE	1K 5%	
Q567 Q2001 Q2002	8-729-901-01 8-729-920-74 8-729-920-74	TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R542 R544 R545	1-216-025-00 1-216-085-00 1-216-033-00	METAL GLAZE	100 5% 33K 5% 220 5%	1/10W
Q2003 Q2004	8-729-216-22			R546 R547	1-216-061-00 1-216-651-11	METAL CHIP		50% 1/10W
Q2005 Q2006 Q2008	8-729-920-74 8-729-901-01 8-729-901-00	TRANSISTOR DTC144EK		R551 R552 R553	1-216-049-00 1-216-097-00 1-216-085-00	METAL GLAZE	1K 5% 100K 5% 33K 5%	
_	, DPG	SISTOR >		R559 R560	1-216-049-00 1-216-073-00		1K 5% 10K 5%	
			4.440	R564	1-216-091-00	METAL GLAZE	56K 5%	1/10W
JR551 JR553 JR557	1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5%	1/10W 1/10W 1/10W	R565 R566	1-216-065-00 1-216-073-00	METAL GLAZE	4.7K 5% 10K 5%	1/10W
R001	1-216-025-00	METAL GLAZE 100 5%	1/10W	R567 R568	1-216-085-00 1-216-109-00		33K 5% 330K 5%	
R002 R003	1-216-025-00 1-216-049-00	METAL GLAZE 100 5% METAL GLAZE 1K 5%	1/10W 1/10W	R570 R571	1-216-049-00 1-216-073-00		1K 5% 10K 5%	
R004 R005	1-216-049-00 1-216-295-91	METAL GLAZE 1K 5%	1/10W 1/10W 1/10W	R2001 R2002	1-216-065-00 1-216-043-91	METAL GLAZE	4.7K 5%	1/10W
R007	1-216-073-00		1/10W	R2003	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R008 R010	1-216-049-00 1-216-049-00		1/10W 1/10W	R2004 R2005	1-216-037-00 1-216-041-00		330 5% 470 5%	
R011 R012	1-216-049-00 1-216-049-00	METAL GLAZE 1K 5%	1/10W 1/10W	R2007 R2008	1-216-073-00	METAL GLAZE	10K 5% 100 5%	1/10W
R014	1-216-049-00		1/10W	R2009	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W
R016 R017	1-216-045-00 1-216-049-00		1/10W 1/10W	R2010 R2011	1-216-025-00 1-216-057-00		100 5% 2.2K 5%	
R018 R019	1-216-041-00 1-216-025-00	METAL GLAZE 470 5%	1/10W 1/10W	R2012	1-216-631-11			50% 1/10W

The components identified by shading and marked r are critical for safety.

Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTION)N		REMARK
R2013 R2014	1-216-631-11 1-216-631-11)% 1/10W)% 1/10W		C662	1-126-943-11	ELECT	2200MF	20%	25V
R2017 R2018	1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE	22K 5% 22K 5%	1/10W 1/10W		C663 C664	1-126-943-11 1-126-943-11	ELECT	2200MF 2200MF	20% 20%	25V 25V
R2019 R2020	1-216-081-00	METAL GLAZE	22K 5%	1/10W		C665 C666	1-126-943-11 1-126-943-11	ELECT	2200MF 2200MF	20% 20%	25V 25V
R2021 R2022	1-216-057-00 1-216-057-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5% 2.2K 5% 220 5%	1/10W 1/10W 1/10W	1	C667 C669	1-126-943-11 1-124-907-11		2200MF	20%	25V
R2023 R2025	1-216-035-00 1-216-025-00 1-216-063-00	METAL GLAZE METAL GLAZE	100 5% 3.9K 5%	1/10W 1/10W	1	C670 C671	1-124-907-11 1-102-002-00 1-102-002-00	CERAMIC	10MF 680PF 680PF	20% 10% 10%	50 V 500 V 500V
R2026	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	1	C672 C673	1-102-002-00 1-102-002-00	CERAMIC CERAMIC	680PF 680PF	10% 10%	500V 500V
R2030 R2032	1-216-295-91 1-216-049-00	METAL GLAZE	0 5% 1K 5%	1/10W 1/10W	!	C674	1-124-480-11		470MF	20%	25 V
R2036 R2037	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1K 5% 1K 5%	1/10W 1/10W		C675 C680	1-124-907-11 1-124-478-11	ELECT	10MF 100MF	20% 20%	50V 25V
R2039 R2040	1-216-041-00 1-216-055-00	METAL GLAZE METAL GLAZE	470 5% 1.8K 5%	1/10W 1/10W		C681 C1802	1-124-910-11 1-162-599-12		47MF 0.0047MF	20% 20%	50V 400V
	< CRY	STAL >				C1803 C1804	1-162-599-12 1-125-555-11		0.0047MF 330MF	20% 20%	400V 400V
X2001	1-579-965-21	VIBRATOR, CR	YST AL			C1808 🕸	1-162-578-51	CERAMIC	0.0047MF 0.0047MF	20% 20%	400V 400V
******	********	*******	******	*****	*****		1-136-519-12	FILM	0.47MF	20%	3007
	*A-1637-002-A	G BOARD, COM	PLETE ****			C1820 C1821	1-136-519-12 1-162-599-12 1-162-599-12	CERAMIC	0.47MF 0.0047MF 0.0047MF	20% 20% 20%	300V 400V 400V
	< CAP	ACITOR >					< CON	NECTOR >		÷	
C600 C601	1-125-497-11 1-130-202-00	FILM	100MF 0.022MF	20% 10%	400V 400V	CN1605 CN1627	*1-568-879-11 *1-564-512-11				
C605 C608 C611	1-124-910-11 1-124-903-11	ELECT	47MF 1MF	20% 20%	50V 50V	CN1628 CN1652	*1-568-882-51 1-564-511-11	PIN, CONNECT PLUG, CONNEC	OR 7P TOR 8P		
C612	1-102-002-00 1-130-481-00	CERAMIC FILM	0.0068MF	1 0% 5%	500V 50V	CN1653 CN1654	*1-568-879-11	PIN, CONNECT		n) ED	
C613 C617	1-129-722-00 1-162-116-00	FILM	0.047MF 680PF	10% 10%	630 V 2KV	CN1655 CN1656	1-766-278-21 1-508-786-00 1-508-786-00	PIN, CONNECT	OR (5MM PITC	CH) 2P	
C618 C619	1-162-115-00 1-102-002-00	CERAMIC CERAMIC	330PF 680PF	10% 10%	2KV 500V	CN1661 CN1857	1-695-915-11 1-508-786-00	TAB (CONTACT)	•	
C620 C621	1-130-772-00 1-124-347-00	FILM ELECT	0.22MF 100MF	5% 20%	63V 160 V	CN1858	*1-580-689-11 *1-580-689-11	PIN, CONNECT	OR (PC BOARI	O) 4P	v = \$2.7
C622 C623	1-124-347-00 1-124-347-00 1-126-800-51	ELECT	100MF 2200MF	20% 20% 20%	160V 160V 25V	CN1860 ±	*1-580-689-11 *1-580-689-11 1-508-784-00	PIN, CONNECT	or (pc boari) 4P	
C624	1-124-347-00		100MF	20%	160V	CHIOUI	< DIO		ON (SMM FII)	,11; IF	
C625 C626	1-126-183-11 1-126-800-51	ELECT	1000MF 2200MF	20% 20%	16V 25V	D602	8-719-302-43				
C627 C628	1-137-365-11 1-124-910-11	ELECT	0.0015MF 47MF	5% 20%	50V 50V	D603	8-719-029-04 *4-389-343-11	SPRING, IC;	D603		
C629 C632	1-124-907-11 1-137-372-11		10MF 0.022MF	20% 5%	50V 50V	D604	8-719-029-04 *4-389-343-11		D604		
C633 C636	1-137-419-11 1-130-777-00	FILM	0.033MF 0.1MF	5% 5%	63V 63V	D606 D608	8-719-302-43 8-719-300-33	DIODE EL1Z			
C640 C643	1-124-916-11 1-162-116-00	ELECT	22MF 680PF	20% 10%	50V 2KV	D610	8-719-970-39 *4-389-343-11	DIODE ESAC92	M-02		
C650 C651	1-102-002-00		680PF	10%	500V	D611	8-719-510-41	DIODE D10SC9	M		
C653 C654	1-124-480-11 1-124-478-11 1-124-907-11	ELECT	470MF 100MF 10MF	20% 20% 20%	25V 25V 50V	D612	*4-389-343-11 8-719-510-09	DIODE D10SC6	M		
C655	1-124-120-11		220MF	20% 20%	16V	D613	*4-389-343-11 8-719-300-33				
C658 C659	1-126-943-11 1-124-478-11	ELECT	2200MF 100MF	20% 20%	25V 25V	D614	8-719-510-41 *4-389-343-11	DIODE D10SC9 SPRING, IC :	M D614		
C660 C661	1-126-943-11 1-124-478-11		2200MF 100MF	20% 20%	25V 25V	D615 D616	8-719-975-76 8-719-923-78	DIODE SB140			

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REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	nu -	J	REMARK
	DESCRIPTION	NEMANN	ner.nv.	PANT NO.	DESCRIPTION	UN		NEMANN
D617 8-719-110-03	DIODE RD7.5ESB2			< TRA	NSISTOR >			
			Q601 Q611 Q612	8-729-016-14 4-200-001-11 4-201-023-11 8-729-119-78 8-729-900-65	HOLDER, IC; SPACER, INSU TRANSISTOR 2	Q601 LATING ; Q601 SC2785-HFE		
	DIODE 1SS133		Q614	8-729-209-15 *4-389-343-11 8-729-119-78 8-729-119-78	TRANSISTOR 2 SPRING, IC; TRANSISTOR 2 TRANSISTOR 2	SD2012 Q614 SC2785-HFE SC2785-HFE		
D650 8-719-908-03 D653 8-719-908-03 D654 8-719-908-03 D655 8-719-908-03 D656 8-719-908-03	DIODE GP08D DIODE GP08D DIODE GP08D		Q621 Q623 Q629	8-729-119-78 8-729-119-76 8-729-378-84 < RES	TRANSISTOR 2	SA1175-HFE		
	DIODE GP08D		R601 R602 R604 R605 R606	1-216-353-00 1-249-425-11 1-214-921-00 1-249-392-11 1-249-409-11	CARBON CARBON CARBON	2.2 5% 4.7K 5% 220K 5% 8.2 5% 220 5%	1W 1/4W 1/2W 1/4W 1/4W	F
	E > FUSE (H.B.C.) 5A/250V RITE BEAD >	- 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	R607 R608 A R609 R610 R611	1-249-423-11 1-215-926-51 1-249-392-11 1-247-881-00 1-247-739-11	METAL OXIDE CARBON CARBON	3.3K 5% 33K 5% 8.2 5% 120K 5% 100 5%	1/4W 3W 1/4W 1/4W 1/2W	F
FB607 1-410-397-21 FB612 1-410-397-21	FERRITE BEAD INDUCTOR 1.1 FERRITE BEAD INDUCTOR 1.1 FERRITE BEAD INDUCTOR 1.1	LUH	R612 R613 R614 R615	1-247-897-11 1-247-893-11 1-216-485-11 1-216-485-11	CARBON CARBON METAL OXIDE METAL OXIDE	560K 5% 390K 5% 5.6K 5% 5.6K 5%	1/4W 1/4W 3W 3W 3W	F F
IC601 8-759-073-29 IC602 8-759-908-15 IC603 4: 8-749-923-44 IC605 8-759-708-05	IC TDA4605-3 IC TL431CLP IC SFH617G-1 IC NJM78L05A	文化《西南南南省 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	R616 R617 R619 R620 R621 R622	1-216-485-11 1-249-409-11 1-216-444-11 1-249-415-11 1-215-431-00 1-249-413-11	CARBON METAL OXIDE CARBON METAL	220 5% 82K 5% 680 5% 2.7K 1% 470 5%	1/4W 1W 1/4W 1/4W 1/4W	
L602 1-410-397-21 L603 1-459-862-11 L604 1-410-396-41	FERRITE BEAD INDUCTOR 1.1 FERRITE BEAD INDUCTOR 1.1 COIL, CHOKE 90UH FERRITE BEAD INDUCTOR 0.4 COIL, CHOKE 90UH	LUH	R623 R626 R628 R629 R632	1-249-429-11 1-215-405-00 1-249-410-11 1-215-460-00 1-249-409-11	METAL CARBON METAL	10K 5% 220 1% 270 5% 43K 1% 220 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
L609 1-410-396-41	FERRITE BEAD INDUCTOR 0.4 FERRITE BEAD INDUCTOR 1.1 INDUCTOR 180UH INDUCTOR 47UH		R633 R634 R635 R636 R637	1-249-415-11 1-215-477-00 1-247-863-91 1-215-890-11 1-247-895-00	METAL CARBON METAL OXIDE	680 5% 220K 1% 22K 5% 470 5% 470K 5%	1/4W 1/4W 1/4W 2W 1/4W	F
	E FILTER >		R638 R639 R640 R642 R643	1-249-429-11 1-249-423-11 1-216-362-11 1-249-423-11 1-249-377-11	CARBON METAL OXIDE CARBON	10K 5% 3.3K 5% 0.27 5% 3.3K 5% 0.47 5%	1/4W 1/4W 2W 1/4W 1/4W	
LF1803 1-424-436-11 < IC	TRANSFORMER, LINE FILTER TRANSFORMER, LINE FILTER TRANSFORMER, LINE FILTER LINK >		R644 R645 R649 R651 R659	1-249-425-11 1-215-467-00 1-249-424-11 1-249-426-11 1-249-414-11	METAL CARBON CARBON	4.7K 5% 82K 1% 3.9K 5% 5.6K 5% 560 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
1-532-637-91	LINK, IC 1A (ICP-N25)		R660 R687 R691 R694 R697	1-249-413-11 1-249-417-11 1-249-429-11 1-249-421-11 1-249-382-11	CARBON CARBON CARBON	470 5% 1K 5% 10K 5% 2.2K 5% 1.2 5%	1/4W 1/4W 1/4W 1/4W 1/4W	

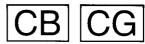


The components identified by shading and marked r are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	<u>on</u>		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>			REMARK
R1801 R1806 R1807 R1808 R1809	1-260-132-11 1-205-949-11 1-205-949-11 1-244-945-91 1-218-265-11		560K 5% 1.8 5% 1.8 5% 1M 5% 8.2M 5%	1/2W 10W 10W 1/2W 1W		NL702	1-519-237-14	N LAMP > LAMP, NEON NSISTOR >				
-	1-205-949-11 1-205-949-11		1.8 5% 1.8 5%	10W 10W		Q701 Q702 Q703	8-729-119-78 8-729-119-78 8-729-119-80	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-H	IFE		
	< VAR	IABLE RESISTO)R >			2,03	4-373-933-01 4-382-854-11	SHEET (TRANS	ISTOR),	BN ;	Q703 : 0703	
RV601	1-241-628-11	RES, ADJ, CA	ARBON 2.2K			Q704	8-729-255-12	TRANSISTOR 2			,	
	< REL					Q705 Q706	8-729-200-17 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2				
RY 601	1-755-032-11				13 2 3	:	< RES	ISTOR >				
	< TRA	NSFORMER >				R701	1-202-847-00	GOT TD	ECOV	200	1 / 254	
	1-426-954-11 1-426-953-11 1-426-955-11 1-450-149-11	TRANSFORMER, TRANSFORMER,	CONVERTER POWER			R702 R704 R705 R706	1-202-814-11 1-202-842-11 1-202-828-11 1-202-561-00	SOLID SOLID	560K 33K 220K 6.8K 330	20% 20%	1/2W 1/2W 1/2W 1/2W 1/2W	
******	*A-1638-049-A		MPLETE	*****	******	R707 R708 R709 R710 R711	1-216-510-11 1-249-405-11 1-249-405-11 1-215-927-00 1-249-405-11	CARBON CARBON METAL OXIDE	8.2K 100 100 47K 100	5% 5% 5% 5%	5W 1/4W 1/4W 3W 1/4W	F F
	< CAP	ACITOR >										
C701 C702 C703 C704 C705	1-162-115-00 1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00	ELECT CERAMIC CERAMIC	330PF 22MF 0.01MF 330PF 0.0047MF	10% 20% 99% 10% 5%	2KV 250V 500V 2KV 50V	R712 R714 R716 R717 R718	1-249-421-11 1-249-401-11 1-247-807-31 1-249-399-11 1-249-412-11	CARBON CARBON CARBON	2.2K 47 100 33 390	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F
C706 C707 C709 C710 C711	1-101-006-00 1-101-006-00 1-124-120-11 1-124-120-11 1-102-114-00	CERAMIC CERAMIC ELECT ELECT CERAMIC	0.047MF 0.047MF 220MF 220MF 470PF	20% 20% 10%	50V 50V 16V 16V 50V	R719 R720 R721 R722 R724	1-247-811-31 1-247-807-31 1-249-409-11 1-215-423-00 1-215-429-00	CARBON CARBON METAL METAL	150 100 220 1.2K 2.2K		1/4W 1/4W 1/4W 1/4W 1/4W	
	< CON	NECTOR >					< VAR	IABLE RESISTO	χ >			
CR1 CR3 CR4 CR15	1-508-784-00 1-508-765-00 1-564-511-11 *1-568-880-51	PIN, CONNECT PLUG, CONNEC	OR (5MM PIT			RV701	1-249-410-11 < SPA 1-519-422-11	RK GAP >	270	5%	1/4W	
V-1V		SOCKET >					******	·	******		*****	
One of the second	4-251-179-11				がなる (なんな) できる (なんない) (なんなん)		*A-1638-050-A					
	< DIO	DE >						*******				
D701 D702 D703 D704 D705	8-719-901-33 8-719-901-33 8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133	i i			C761 C762 C763 C764	<pre></pre>	ELECT CERAMIC	330PF 22MF 0.01MF 330PF		10% 20% 99% 10%	2KV 250V 500V 2KV
D706	8-7 19-901-33	DIODE 1SS133	;			C765	1-130-479-00		0.0047N		5%	50V
D707	8-719-921-88		.3B			C766 C767	1-101-006-00 1-101-006-00	CERAMIC	0.047ME	?		50V 50V
	< COI	L >				C769 C770	1-124-120-11 1-124-120-11		220MF 220MF		20% 20%	16V 16V
L701 L702 L703 L 704	1-408-429-00 1-408-159-00 1-408-159-00 1-408-413-00	COIL, SPOOK				C771	1-102-114-00		470PF		10%	50V
• •	_ 100 210 00		-2011			CB1	1-508-784-00	PIN, CONNECT	OR (5MM	PITCH	I) 1P	

The components identified by shading and marked it are critical for safety.

Replace only with the part number specified.



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REF.NO.	PART NO.	DESCRIPTION	N		REMA	RK	REF.NO.	PART NO.	DESCRIPTI	ON		REMAR
CB3 CB4		PIN, CONNECTO		ITCH) 3P				< SPA	ARK GAP >			
CB5 CB17		PLUG, CONNEC	COR 8P				SG762	1-519-422-11	GAP, SPARK			
CBI/		•	JK 5P				******	*******	*****	*******	****	******
CRT761 :	1-251-179-11	SOCKET >						*A-1638-051-A	CG BOARD, CC	MPLETE		
	< DIC	•						< CAF	ACITOR >			
D761	8-719-901-33	DIODE 1SS133					C731	1-162-115-00		330PF	10%	2KV
D762 D763	8-719-901-33	DIODE 1SS133 DIODE 1SS133					C732 C733	1-123-948-00 1-102-050-00	ELECT	22MF	20%	250 V
D764	8-719-901-33	DIODE 1SS133					C734	1-162-115-00	CERAMIC	0.01MF 330PF	99% 10%	2KV
D765		DIODE 1SS133					C735	1-130-479-00		0.0047MF	5%	50V
D766 D768		DIODE 1SS133 DIODE 1SS133					C736 C737	1-101-006-00 1-101-006-00	CERAMIC	0.047MF 0.047MF	0.00	50V 50V
	< CO1	IL >					C739 C740	1-124-120-11 1-124-120-11	ELECT	220MF 220MF	20% 20%	16V
L761	1-408-429-00		470UH				C741	1-102-114-00		470PF	10%	50V
L762 L763	1-408-159-00	COIL, SPOOK (CHOKE 3.3					< CON	NECTOR >			
L764	1-408-413-00	INDUCTOR	22UH				CG1 CG3	1-508-784-00 1-508-765-00				
	< NEC	ON LAMP >					CG16	*1-568-880-51			o, o.	
NL762	1-519-237-14	LAMP, NEON						< CRT	SOCKET >			
	< TRA	ANSISTOR >						1-251-179-11	SOCKET, CRT			
Q761 Q762	8-729-119-78 8-729-119-78	TRANSISTOR 2: TRANSISTOR 2:	SC2785-HF	E				< DIC	DE >			
Q763	8-729-119-80	TRANSISTOR 2	3C2688-LK				D731	8-719-901-33				
	4-382-854-11	SHEET (TRANS: SCREW (M3X10)	LSTOR), B), P, SW	in; Q763 (+); Q76	3		D732 D733	8-719-901-33 8-719-901-33	DIODE 1SS133			
<u>.</u> Q764	8-729-255-12	TRANSISTOR 2	SC2551-0				D734 D735	8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133			
Q765 Q766		TRANSISTOR 2:					D736	8-719-901-33	DIODE 1SS133			
		SISTOR >					D737	8-719-901-33				
R761	1-202-847-00		560K 2	0% 1/2W	1			< COI	L >			
R762 R764	1-202-814-11 1-202-842-11	SOLID	33K 2	0% 1/2W	Ι.		L731	1-408-429-00		470UH		
R765	1-202-828-11	SOLID	220K 2 6.8K 2	0% 1/2W	1		L732 L733	1-408-159-00 1-408-159-00		CHOKE 3.3UH		
R766	1-202-561-00			% 1/2W	I		L734	1-408-413-00	INDUCTOR	22UH		
R767 R768	1-216-510-11 1-249-405-11	CARBON	8.2K 5 100 5	% 5W % 1/4W	F		·	< NEC	N LAMP >			
R769 R770	1-249-405-11 1-215-927-00			% 1/4W % 3W	I F F		NL732	1-519-237-14	LAMP, NEON			
R771	1-249-405-11			% 1/4W				< TRA	NSISTOR >			•
R772 R774	1-249-421-11 1-249-401-11		2.2K 5	% 1/4W % 1/4W			Q731 Q732	8-729-119-78 8-729-119-78				
R776	1-247-807-31	CARBON	100 5	% 1/4W	Ι.		Q733	8-729-119-80	TRANSISTOR 2	SC2688-LK		•
R777 R778	1-249-399-11 1-249-412-11			% 1/4W % 1/4W				4-373-933-01 4-382-854-11		SISTOR), BN)), P, SW (+	; Q73:) ; Q'	3 733
R779	1-249-415-11			% 1/4W			Q734	8-729-255-12	TRANSISTOR 2			
R780 R781	1-247-807-31 1-249-409-11	CARBON	220 5	% 1/4W % 1/4W			Q735 Q736	8-729-200-17 8-729-200-17	TRANSISTOR 2			
R782 R783	1-215-423-00 1-215-433-00		1.2K 1 3.3K 1					< RES	ISTOR >	-		
R784	1-215-429-00		2.2K 1				R731	1-202-847-00		560K 20%	1/:	2W
R785	1-215-418-00		750 1				R732	1-202-814-11	SOLID	33K 20%	1/2	2W
							R734	1-202-842-11	POPTD	220K 20%	1/2	∠₩



REF.NO.	PART NO.	DESCRIPTION	<u>N</u>			REMARK	REF.NO.	PART NO.	DESCRIPTION	NC		REMARK
R735 R736	1-202-828-11 1-202-561-00	SOLID SOLID	6.8K 330	20% 5%	1/2W 1/2W		C903 C904 C905	1-130-471-00 1-130-471-00 1-124-477-11	MYLAR MYLAR ELECT	0.001MF 0.001MF 47MF	5% 5% 20%	50V 50V 16V
R737	1-216-510-11		8.2K	5%	5W	F						
R738 R739	1-249-405-11 1-249-405-11	CARBON CARBON	100 100	5% 5%	1/4W 1/4W		C906 C907	1-126-233-11 1-126-101-11	ELECT ELECT	22MF 100MF	20% 20%	50V 16V
R740	1-215-927-00	METAL OXIDE	47K	5%	3W	F	C908	1-124-907-11	ELECT	100MF	20%	50V
R741	1-249-405-11	CARBON	100	5%	1/4W	F	C910	1-130-483-00	MYLAR	0.01MF	5%	50V
R742	1 040 401 11	GARDON.	0.00	FO.	4 / 450	_	C911	1-131-341-00	TANTAL UM	0.1MF	20%	16V
R744	1-249-421-11 1-249-401-11	CARBON CARBON	2.2K 47	5% 5%	1/4W 1/4W	r	C912	1-124-903-11	ELECT	1MF	20%	50V
R745	1-215-455-00	METAL	27K	1%	1/4W		C913	1-126-233-11	ELECT	22MF	20%	50V
R746	1-247-807-31	CARBON	100	5%	1/4W		C914	1-126-803-11	ELECT	47MF	20%	16V
R747	1-249-399-11	CARBON	33	5%	1/4W		C915 C916	1-124-927-11 1-102-074-00	ELECT CERAMIC	4.7MF 0.001MF	20% 10%	50V 50V
R748	1-249-412-11	CARBON	390	5%	1/4W		03.40	1 102 074 00	CHAMILO	O. OO IMI	10-0	JUV
R750	1-247-807-31	CARBON	100	5%	1/4W		C917	1-130-471-00	MYLAR	0.001MF	5%	50V
R751 R752	1-249-409-11 1-215-423-00	CARBON METAL	220 1.2K	5% 1%	1/4W 1/4W		C918 C919	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5%	50V 50V
R754	1-215-429-00	METAL	2.2K	1%	1/4W		C920	1-102-963-00	CERAMIC	33PF	5% 5%	50V 50V
	1 010 110 11						C921	1-102-963-00	CERAMIC	33PF	5%	50V
R755	1-249-410-11	CARBON	270	5%	1/4W		C922	1-102-963-00	CERAMIC	33PF	5%	50V
	< SPA	ARK GAP >					C923	1-102-963-00	CERAMIC	33 PF	5%	50V
SG732	1-519-422-11	GAD GDADW					C931	1-102-973-00	CERAMIC	100PF	5%	50V
56132	1-319-422-11	GAP, SPARK					C932 C934	1-124-903-11 1-126-233-11	ELECT ELECT	1MF 22MF	20% 20%	50V 25V
******	******	********	*****	****	*****	******		1 110 100 11	22201		20.0	
	*1-650-883-11	DS BOARD					C935 C936	1-126-233-11	ELECT	22MF	20%	25V
	-1-030-003-11	******					C936 C937	1-126-233-11 1-126-233-11	ELECT ELECT	22MF 22MF	20% 20%	25V 25V
							C938	1-126-233-11	ELECT	22MF	20%	25V
	< CAP	ACITOR >					C939	1-126-233-11	ELECT	22MF	20%	25V
C1841 C1842	1-126-233-11		22MF		20%	25V	C940	1-126-233-11		22MF	20%	25V
C1642	1-126-233-11	ELECT	22MF		20%	25V	C1701 C1702	1-124-907-11 1-124-907-11	ELECT ELECT	10MF 10MF	20% 20%	50V 50V
	< DIO	DE >					C1703	1-124-907-11	ELECT	10MF	20%	50V
D1841	0 710 011 10	DTODE 100110					C1704	1-124-667-11	ELECT	10MF	20%	50V
D1041 D1842	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119					C1705	1-102-963-00	CERAMIC	33PF	5%	50V .
D1843	8-719-911-19	DIODE 1SS119					C1705	1-102-963-00	CERAMIC	33PF	5%	50V 50V
D1844	8-719-911-19	DIODE 1SS119					C1707	1-102-963-00	CERAMIC	33 PF	5%	50V
	< CON	NECTOR >					C1708 C1709	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5%	50V 50V
DS6		CONNECTOR (BC	מיים מומגי	DO TO	n) 10p							
מפת			MAKD TO	BUAKI	J) 14P		C1710 C1711	1-102-963-00 1-126-233-11	ELECT	33PF 22MF	5% 20%	50V 50V
	< IC	> .					C1712	1-126-233-11		22MF	20%	25V
IC1801	8-759-183-37	IC CA0007AD					C1713 C1714	1-131-353-00 1 -124-120-11		10MF 220MF	10% 20%	25V 25V
	< KES	ISTOR >					C1715 C1716	1-124-478-11 1-126-803-11		100MF 47MF	20% 20%	25V 25V
R1841	1-215-441-00	METAL	6.8K		1/4W		C1717	1-126-803-11	ELECT	47MF	20%	25V 25V
R1842	1-215-455-00	METAL	27K	1%	1/4W		C1718	1-131-353-00	TANTALUM	10 MF	10%	25V
R1844 R1850	1-215-445-00 1-215-429-00		10K 2.2K	1% 1%	1/4W 1/4W	•	C1719	1-126-233-11	ELECT	22MF	20%	25V
R1851	1-215-421-00		1K	1%	1/4W		C1720	1-130-491-00		0.047MF	5%	50V
******	*****	*******	*****				C1721	1-130-491-00		0.047MF	5%	50V
				7			C1722 C1724	1-130-491-00 1-126-233-11		0.047MF 22MF	5% 20%	50V 25V
	*A-1640-159-A	D BOARD, COMP	LETE				C1725	1-102-963-00		33PF	5%	50V
							C1726	1-124-122-11	ELECT	100MF	20%	35V
	1-533-223-11	CLIP, FUSE	~ ~	a 1 .			C1727	1-102-963-00	CERAMIC	33PF	5%	50V
	4-384-854-11	SCREW (M3X10)	, P, S	N (+)			C1728 C1729	1-102-963-00 1-106-377-00		33PF 0.027MF	5% 99%	50V 200V
	< CAP	ACITOR >					C1730	1-102-963-00		33PF	5%	50V
C901	1-126-320-11	ELECT	10MF		20%	16V	C1731	1-124-122-11	RI.RCT	100MF	20%	35V
C902	1-124-477-11		47MF		20%	16V	C1731	1-106-377-00		0.027MF	20% 99%	200V
						I						

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.



	REF.NO.	PART NO.	DESCRIPTION	ON		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMA
	C1733 C1734	1-102-963-00 1-102-963-00	CERAMIC	33PF 33PF	5% 5 %	50V 50V	D1723		DIODE RD2.0ESB1			
	C1735 C1736 C1737 C1738 C1739	1-124-122-11 1-106-377-00 1-124-937-11 1-124-122-11 1-136-153-00	MYLAR ELECT ELECT	100MF 0.027MF 10MF 100MF 0.01MF	20% 99% 20% 20% 5%	35V 200V 16V 35V 50V			FUSE, TIME-LAG FUSE, TIME-LAG			
	C1740	1-134-133-00		100MF	20%	35 V	IC901	8-759-145-58				
•	C1741 C1742 C1744 C1745 C1755	1-124-122-11 1-126-104-11 1-124-120-11 1-126-375-11 1-106-220-00	ELECT ELECT ELECT	100MF 470MF 220MF 100MF 0.1MF	20% 20% 20% 20% 10%	35V 35V 25V 25V 100V	IC902 IC903 IC904 IC905	8-752-033-68 8-759-701-56 8-759-701-65				
	C1756 C1757 C1758 C1759 C1760	1-106-220-00 1-106-220-00 1-106-220-00 1-106-220-00 1-106-220-00	MYLAR MYLAR MYLAR	0.1MF 0.1MF 0.1MF 0.1MF 0.1MF	10% 10% 10% 10% 10%	100V 100V 100V 100V 100V	IC906 IC907 IC908 IC910 IC1701	8-759-148-84 8-759-140-53 8-759-145-58 8-759-054-40 8-759-602-19	IC UPC4558C IC PA0036			
	C1763 C1764 C1765 C1766 C1769	1-124-907-11 1-124-477-11 1-124-477-11 1-126-101-11 1-124-907-11	ELECT ELECT ELECT ELECT	10MF 47MF 47MF 100MF	20% 20% 20% 20% 20%	50V 16V 16V 16V 50V	IC1702 IC1703 IC1704 IC1705 IC1706		IC M5220L IC STK4278-L IC STK4278-L			
	C1770 C1771 C1772 C1861	1-130-495-00 1-124-907-11 1-124-907-11 1-102-074-00	MYLAR ELECT ELECT	0.1MF 10MF 10MF 0.001MF	5% 20% 20% 10%	50V 50V 50V 50V	IC1707 IC1708 IC1709 IC1710 IC1714	8-759-113-13 8-759-113-13 8-759-145-58 8-759-145-58 8-759-145-58	IC UPC1498H IC UPC4558C IC UPC4558C			
		< DIC	DDE >				IC1715 IC1718	8-759-145-58 8-759-145-58				
	D1 D2	1-766-281-21	PIN, CONNECT PIN, CONNECT	OR (PC BOAR				< COI				
	D3 D4 D5	1-766-281-21	PIN, CONNECT PIN, CONNECT	OR (PC BOAR)			L901 L902 L903	1-459-313-00 1-459-313-00	COIL WITH CORE	(HWC)		
	D6 D7 D8	*1-564-507-11 1-766-276-21	PIN, CONNECT	TOR 4P OR (PC BOAR	D) 3P		L904		COIL WITH CORE	(HWC)		
	D9 D14	*1-564-507-11 *1-564-513-11	PLUG, CONNEC	TOR 10P			Q902 Q906	8-729-119-78	TRANSISTOR DTC TRANSISTOR 2SC TRANSISTOR 2SC	2785-H FE		
	D901 D902 D1702 D1704	8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE V09G)			Q907 Q908 Q909	8-729-119-78 8-729-900-89 8-729-119-78	TRANSISTOR 2SC. TRANSISTOR 2SC.	144ES		
	D1705	8-719-900-95 8-719-900-95	DIODE V09G	,			Q910 Q911 Q912	8-729-119-78 8-729-119-76 8-729-119-76	TRANSISTOR 2SA	1175-HFE	:	
	D1707 D1708 D1709	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119))					SISTOR >			
	D1710 D1711 D1712 D1713	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	·))			R901 R902 R903 R904 R905	1-215-463-00 1-215-463-00 1-215-449-00 1-215-455-00 1-215-449-00	METAL METAL METAL	56K 19 56K 19 15K 19 27K 19 15K 19	6 1/4W 6 1/4W 6 1/4W	
	D1714 D1715	8-719-911-19	DIODE 1SS119	9			R906 R907	1-215-469-00 1-215-469-00	METAL	100K 19	6 1/4W	
	D1716 D1717 D1718 D1720	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE RD2.01	9			R908 R909 R910	1-215-469-00 1-215-473-00 1-215-437-00	METAL	100K 19 150K 19 4.7K 19	6 1/4W	
	D1721 D1721	8-719-109-50	DIODE RD2.01 DIODE RD2.01	ESB1			R911 R912 R913	1-215-453-00 1-215-453-00 1-215-437-00	METAL	22K 19 22K 19 4.7K 19	6 1/4W	
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REF.NO.	PART NO.	DESCRIPTION	<u>ON</u>	REMARK	REF.NO.	PART NO.	DESCRIPTI	<u>ON</u>		R	EMARK
R914 R915	1-215-453-00 1-215-435-00	METAL METAL	22K 1% 3.9K 1%	1/4W 1/4W	R976 R977	1-215-399-00 1-215-399-00	METAL METAL	120 120	1% 1%	1/4W 1/4W	
R916 R919	1-215-457-00 1-215-399-00		33K 1% 120 1%	1/4W 1/4W	R978	1-215-399-00	METAL	120	1%	1/4W	
R920	1-215-399-00	METAL	120 1%	1/4W	R979 R980	1-215-399-00 1-215-399-00	METAL METAL	120 120	1% 1%	1/4W 1/4W	
R921	1-215-399-00		120 1%	1/4W	R981	1-215-399-00	METAL	120	1%	1/4W	
R922	1-215-399-00	METAL	120 1%	1/4W	R982	1-249-431-11	CARBON	15K	5%	1/4W	
R923 R924	1-215-441-00 1-215-441-00		6.8K 1% 6.8K 1%	1/4W 1/4W	R983	1-249-431-11		15K	5%	1/4W	
R925	1-215-441-00		6.8K 1%	1/4W	R984 R985	1-214-806-21 1-214-806-21		3.9 3.9	1% 1%	1/2W 1/2W	
R926 R927	1-215-463-00		56K 1%	1/4W	R986	1-214-806-21	METAL	3.9	1%	1/2W	
•	1-215-463-00		56K 1%	1/4W	R987	1-215-421-00	METAL	1K	1%	1/4W	
R928 R929	1-215-461-00 1-215-433-00	METAL METAL	47K 1% 3.3K 1%	. 1/4W 1/4W	R988	1-215-421-00	METAL	1K	1%	1/4W	
R930	1-215-433-00	METAL	3.3K 1%	1/4W	R989 R990	1-215-421-00 1-215-421-00	METAL METAL	1K 1K	1% 1%	1/4W 1/4W	
R931 R932	1-215-433-00		3.3K 1%	1/4W	R991	1-215-421-00	METAL	1K	1%	1/4W	
	1-215-433-00	METAL	3.3K 1%	1/4W	R992	1-215-421-00	METAL	1K	1%	1/4W	•
R933 R934	1-215-433-00 1-215-433-00	METAL METAL	3.3K 1% 3.3K 1%	1/4W 1/4W	R993 R994	1-249-429-11	CARBON	10K	5%	1/4W	
R935	1-215-439-00	METAL	5.6K 1%	1/4W	R995	1-249-429-11 1-215-457-00	CARBON METAL	10K 33K	5% 1%	1/4W 1/4W	
R936 R937	1-215-439-00	METAL	5.6K 1%	1/4W	R999	1-215-455-00	METAL	27K	1%	1/4W	
	1-215-439-00	METAL	5.6K 1%	1/4W	R1701	1-249-411-11	CARBON	330	5%	1/4W	
R938 R939	1-215-417-00 1-215-433-00	METAL	680 1%	1/4W	R1702	1-249-427-11		6.8K	5%	1/4W	
R940	1-215-429-00	METAL METAL	3.3K 1% 2.2K 1%	1/4W 1/4W	R1703 R1704	1-249-427-11 1-249-411-11		6.8K		1/4W	
R941	1-215-441-00	METAL	6.8K 1%	1/4W	R1705	1-249-411-11	CARBON CARBON	330 330	5% 5%	1/4W 1/4W	
R942	1-215-451-00	METAL	18K 1%	1/4W	R1706	1-249-427-11	CARBON	6.8K	5%	1/4W	
R943 R944	1-215-441-00	METAL	6.8K 1%	1/4W	R1707	1-249-411-11	CARBON	330	5%	1/4W	
R945	1-215-439-00 1-215-445-00	METAL METAL	5.6K 1% 10K 1%	1/4W 1/4W	R1708 R1709	1-249-427-11	CARBON	6.8K		1/4W	
R946	1-215-445-00	METAL	10K 1%	1/4W	R1710	1-249-427-11 1-249-411-11		6.8K 330	5% 5%	1/4W 1/4W	
R947	1-215-439-00	METAL	5.6K 1%	1/4W	R1711	1-249-411-11	CARBON	330	5%	1/4W	
R948 R949	1-215-455-00 1-215-439-00	METAL METAL	27K 1%	1/4W	R1712	1-249-427-11	CARBON	6.8K	5%	1/4W	
R950	1-215-439-00	METAL	5.6K 1% 2.2K 1%	1/4W 1/4W	R1713 R1714	1-215-886-11 1-249-411-11	METAL OXIDE	100	5%	2W F	1
R951	1-215-429-00	METAL	2.2K 1%	1/4W	R1715	1-249-411-11	CARBON CARBON	330 330	5% 5%	1/4W 1/4W	
R952	1-215-437-00	METAL	4.7K 1%	1/4W	R1716	1-215-886-11	METAL OXIDE	100	5%	2W F	
R953 R954	1-215-439-00 1-215-439-00	METAL METAL	5.6K 1% 5.6K 1%	1/4W 1/4W	R1717	1-249-411-11	CARBON	330	5%	1/4W	
R955	1-215-435-00	METAL	3.9K 1%	1/4W	R1718 R1719	1-249-417-11 1-214-792-00	CARBON METAL	1K 1	5% 1%	1/4W 1/2W	
R956	1-215-437-00	METAL	4.7K 1%	1/4W	R1720	1-249-411-11	CARBON	330	5%	1/4W	
R957	1-215-441-00	METAL	6.8K 1%	1/4W	R1721	1-249-417-11	CARBON	1K	5%	1/4W	
R958 R959	1-215-437-00 1-215-439-00	METAL METAL	4.7K 1%	1/4W	R1722	1-249-411-11	CARBON	330	5%	1/4W	
R960	1-215-439-00	METAL	5.6K 1% 5.6K 1%	1/4W 1/4W	R1723 R1724	1-249-417-11 1-215-886-11	CARBON METAL OXIDE	1K	5%	1/4W	
R961	1-215-439-00	METAL	5.6K 1%	1/4W	R1725		METAL OXIDE	100 100	5% 5%	2W F 2W F	
R962	1-215-441-00	METAL	6.8K 1%	1/4W	R1726	1-215-886-11	METAL OXIDE	100	5%	2W F	
R963 R964	1-215-441-00 1-215-441-00	METAL METAL	6.8K 1% 6.8K 1%	1/4W	R1727	1-214-792-00	METAL	1	1%	1/2W	
R965	1-215-909-11	METAL OXIDE	6.6K 1% 47 5%	1/4W 3W F	R1728 R1729	1-214-792-00 1-214-792-00	METAL .	1 1	1% 1%	1/2W	
R966	1-215-469-00	METAL	100K 1%	1/4W	R1730		CARBON	100	1% 5%	1/2W 1/4W	
R967		METAL	1K 1%	1/4W	R1731	1-249-417-11	CARBON	1K	5%	1/4W	
R968 R969	1-215-437-00 1-249-421-11	METAL CARBON	4.7K 1% 2.2K 5%	1/4W	R1732	1-247-807-31	CARBON	100	5%	1/4W	
R970	1-215-909-11	METAL OXIDE	47 5%	1/4W 3W F	R1733 R1734	1-247-807-31 1-247-807-31	CARBON CARBON	100 100	5% 5%	1/4W	
R971	1-249-421-11	CARBON	2.2K 5%	1/4W	R1735	1-247-807-31	CARBON	100	วจ 5%	1/4W 1/4W	
R972		CARBON	15K 5%	1/4W	R1736	1-249-423-11	CARBON	3.3K		1/4W	
R973 R974	1-249-431-11 1-215-399-00	CARBON METAL	15K 5%	1/4W	R1737		CARBON	3.3K		1/4W	
R975		METAL	120 1% 120 1%	1/4W 1/4W	R1738 R1739		CARBON	3.3K	5%	1/4W	
				-/	WT133	T-743-473-TT	CARBON	3.3K	5%	1/4W	

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REF.NO.	PART NO.	DESCRIPTION	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTION	Į			REMARK
R1740 R1741	1-249-417-11 1-249-423-11	CARBON CARBON	1K 3.3K	5% 5%	1/4W 1/4W	R1801 R1802	1-215-439-00 1-215-439-00	METAL METAL	5.6K 5.6K		1/4W 1/4W	•
R1742 R1743 R1744 R1745 R1746	1-249-423-11 1-249-417-11 1-249-411-11 1-247-807-31 1-214-792-00	CARBON CARBON CARBON CARBON METAL	3.3K 1K 330 100	5% 5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/2W	R1803 R1805 R1806 R1807 R1808	1-215-439-00 1-215-439-00 1-247-807-31 1-247-807-31 1-214-792-00	METAL METAL CARBON CARBON METAL	5.6K 5.6K 100 100	1% 1% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/2W	
R1747 R1748 R1749 R1750 R1751	1-215-886-11 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00	METAL OXIDE METAL METAL METAL METAL	100 1K 1K 1K 1K	5% 1% 1% 1% 1%	2W F 1/4W 1/4W 1/4W 1/4W	R1809 R1810 R1811 R1812 R1813	1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00	METAL METAL METAL METAL METAL	1 1 1 1	1% 1% 1% 1% 1%	1/2W 1/2W 1/2W 1/2W 1/2W	
R1752 R1753 R1754 R1755 R1756	1-215-421-00 1-215-421-00 1-214-792-00 1-215-469-00 1-215-443-00	METAL METAL METAL METAL METAL	1K 1K 1 100K 8.2K	1% 1% 1% 1% 1%	1/4W 1/4W 1/2W 1/4W 1/4W	R1814 R1815 R1816 R1817 R1818	1-249-431-11 1-247-885-00 1-249-431-11 1-247-885-00 1-247-807-31	CARBON CARBON CARBON CARBON CARBON	15K 180K 15K 180K 100	5% 5% 5% 5% 5 %	1/4W 1/4W 1/4W 1/4W 1/4W	
R1757 R1758 R1759 R1760 R1761	1-215-437-00 1-215-437-00 1-247-807-31 1-249-427-11 1-249-419-11	METAL METAL CARBON CARBON CARBON	4.7K 4.7K 100 6.8K 1.5K	1% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R1819 R1820 R1821 R1822 R1823	1-215-437-00 1-215-437-00 1-215-437-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	4.7K 4.7K 4.7K 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1762 R1763 R1764 R1765 R1766	1-215-445-00 1-249-427-11 1-249-419-11 1-249-419-11 1-249-427-11	METAL CARBON CARBON CARBON CARBON	10K 6.8K 1.5K 1.5K 6.8K	5%	1/4W 1/4W 1/4W 1/4W 1/4W	R1824 R1825 R1826 R1827 R1828	1-215-433-00 1-215-433-00 1-215-433-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	3.3K 3.3K 3.3K 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1767 R1768 R1769 R1770 R1771	1-249-427-11 1-249-439-11 1-215-445-00 1-247-807-31 1-247-807-31	CARBON CARBON METAL CARBON CARBON	6.8K 68K 10K 100 100	5% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R1829 R1830 R1831 R1832 R1833	1-249-434-11 1-249-434-11 1-247-807-31 1-215-471-00 1-215-471-00	CARBON CARBON CARBON METAL METAL	27K 27K 100 120K 120K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1772 R1773 R1774 R1775 R1776	1-215-429-00 1-215-429-00 1-215-421-00 1-249-429-11 1-215-421-00	METAL METAL METAL CARBON METAL	2.2K 2.2K 1K 10K 1K	1% 1% 1% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1834 R1835 R1836 R1837 R1838	1-215-471-00 1-215-437-00 1-215-437-00 1-215-421-00 1-249-431-11	METAL METAL METAL METAL CARBON	120K 4.7K 4.7K 1K 15K	1% 1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1777 R1778 R1779 R1780 R1781	1-249-423-11 1-215-421-00 1-215-898-11 1-214-806-21 1-214-806-21	METAL METAL OXIDE METAL	3.3K 1K 10K 3.9 3.9	5% 1% 5% 1% 1%	1/4W 1/4W 2W F 1/2W 1/2W	R1839 R1858 R1859 R1860 R1861	1-249-431-11 1-215-445-00 1-215-445-00 1-215-397-00 1-215-453-00	METAL METAL METAL	15K 10K 10K 10K 22K	5% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1782 R1783 R1784 R1785 R1786	1-215-898-11 1-214-806-21 1-214-806-21 1-215-898-11 1-214-806-21	METAL METAL METAL OXIDE	10K 3.9 3.9 10K 3.9	5% 1% 1% 5% 1%	2W F 1/2W 1/2W 2W F 1/2W	R1862 R1863 R1864 R1865 R1866	1-215-453-00 1-215-397-00 1-215-437-00 1-215-453-00 1-215-453-00	METAL METAL	22K 100 4.7K 22K 22K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1787 R1788 R1789 R1790 R1791	1-214-806-21 1-249-433-11 1-249-441-11 1-249-433-11 1-249-429-11	CARBON CARBON CARBON	3.9 22K 100K 22K 10K	1% 5% 5% 5% 5%	1/2W 1/4W 1/4W 1/4W 1/4W	R1867 R1868 R1869 R1870 R1871	1-215-437-00 1-215-469-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL	4.7K 100K 10K 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1792 R1793 R1794 R1795 R1796	1-215-445-00 1-247-807-31 1-215-429-00 1-249-433-11 1-247-807-31	CARBON METAL CARBON	10K 100 2.2K 22K 100	1% 5% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R1872 R1873 R1874 R1875 R1876	1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00	METAL METAL METAL	4.7K 4.7K 4.7K 4.7K 4.7K	1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1797 R1798 R1800	1-249-429-11 1-249-423-11 1-247-807-31	CARBON	10K 3.3K 100	5% 5% 5%	1/4W 1/4W 1/4W	R1877 R1878 R1879	1-215-437-00 1-215-475-00 1-215-475-00	METAL	4.7K 180K 180K	1%	1/4W 1/4W 1/4W	



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1880 R1882	1-215-475-00 1-215-445-00		180K 1% 10K 1%	1/4W 1/4W	RV914 RV915	1-241-630-11 1-241-630-11	RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K	
R1883 R1884 R1885 R1886 R1887	1-215-453-00 1-215-397-00 1-215-445-00 1-215-455-00 1-215-397-00	METAL METAL METAL	22K 1% 100 1% 10K 1% 27K 1% 100 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV916 RV917 RV918 RV919 RV920	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1889 R1890 R1892 R1894 R1895	1-215-457-00 1-215-449-00 1-215-445-00 1-215-429-00 1-215-445-00	METAL METAL METAL	33K 1% 15K 1% 10K 1% 2.2K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV921 RV922 RV923 RV924 RV925	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1896 R1897 R1898 R1899 R1900	1-215-445-00 1-215-445-00 1-215-445-00 1-215-421-00 1-215-429-00	METAL METAL METAL	10K 1% 10K 1% 10K 1% 1K 1% 2.2K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV926 RV927 RV928 RV929 RV930	1-241-765-11 1-241-630-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K	
R1901 R1902 R1903 R1904 R1905	1-215-449-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL	15K 1% 10K 1% 10K 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV931 RV932 RV933 RV934 RV935	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1906 R1907 R1908 R1909 R1910	1-215-429-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL	2.2K 1% 10K 1% 10K 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV936 RV937 RV938 RV939 RV940	1-241-630-11 1-241-630-11 1-241-630-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K RES, ADJ, CARBON 22K	
R1911 R1916 R1920 R1921 R1922	1-215-453-00 1-215-423-00 1-215-453-00 1-215-445-00 1-215-445-00	METAL METAL METAL	22K 1% 1.2K 1% 22K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV941 RV942 RV943 RV944 RV945	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1924 R1925 R1926 R1927 R1928	1-215-429-00 1-215-429-00 1-215-429-00 1-215-445-00 1-215-421-00	METAL METAL METAL	2.2K 1% 2.2K 1% 2.2K 1% 10K 1% 1K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV946 RV947 RV948 RV949 RV950	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1929 R1930 R1931 R1932 R1933	1-215-445-00 1-215-397-00 1-215-397-00 1-215-453-00 1-215-453-00	METAL METAL METAL	10K 1% 100 1% 100 1% 22K 1% 22K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV951 RV952 RV953 RV954 RV956	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1934 R1935 R1937	1-215-429-00 1-247-881-00 1-215-445-00	CARBON	2.2K 1% 120K 5% 10K 1%	1/4W 1/4W 1/4W	RV957 RV958 RV959 RV961 RV962	1-241-765-11 1-241-765-11	CARBON 1K 5% RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	1/4W
RV901 RV902 RV903 RV904 RV905	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBO RES, ADJ, CARBO RES, ADJ, CARBO RES, ADJ, CARBO RES, ADJ, CARBO	ON 22K ON 22K ON 22K		RV963 RV964 RV965 RV966 RV967	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV906 RV907 RV908 RV909 RV910	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBO RES, ADJ, CARBO RES, ADJ, CARBO RES, ADJ, CARBO	ON 22K ON 22K ON 22K		RV968 RV969 RV970 RV971 RV972	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV911 RV912 RV913	1-241-765-11	RES, ADJ, CARBO RES, ADJ, CARBO RES, ADJ, CARBO	ON 22K		RV973 RV974 RV975	1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	

			KP-S4613/2
D	E	2	VM
DESCRIPTIO	N		REMARK
METAL GLAZE	470 470 10 220 10K 1.2K 3.9K 680 1K 1K	5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 82K 4.7K 330 1.8K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		REMARK
RV976	1-241-765-11	RES, ADJ, CARBON 22K			R2	1-216-041-00	METAL GLAZE	470 5%	1/10W	
RV977	1-241-765-11	RES, ADJ, CARBON 22K			R3	1-216-041-00	METAL GLAZE	470 5%	1/10W	
					R4	1-216-001-00		10 5%	1/10W	
RV978		RES, ADJ, CARBON 22K			R5 R6	1-216-033-00		220 5% 10K 5%	1/10W	
RV979 RV980		RES, ADJ, CARBON 22K RES, ADJ, CARBON 47K			Ko	1-216-073-00	METAL GLAZE	100 3%	1/10W	
RV981		RES, ADJ, CARBON 22K			R7	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W	
RV982		RES, ADJ, CARBON 22K			R8	1-216-063-00		3.9K 5%	1/10W	
					R9	1-216-045-00	METAL GLAZE	680 5%	1/10W	
******	****** ****	************	*****	*****	R10	1-216-049-00	METAL GLAZE	1K 5%	1/10W	
	45 4640 444 5	T^ DALDD ###			R11	1-216-049-00	METAL GLAZE	1K 5%	1/10W	ľ
	*A-1642-141-A	E2 BOARD, COMPLETE			R12	1-216-049-00	METAL GLAZE	1K 5%	1/10W	
					R13	1-216-049-00		82K 5%	1/10W	
,	< CAP	ACITOR >			R14	1-216-065-00		4.7K 5%	1/10W	
					R16	1-216-037-00		330 5%	1/10W	ľ
C1	1-126-103-11		20%	16V	R17	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W	-
C2		CERAMIC CHIP 0.01MF		50V		1 016 005 00		220 50	1 /1 00	
C3 C4		CERAMIC CHIP 0.01MF CERAMIC CHIP 0.022MF	10%	50V 25V	R18 R19	1-216-037-00 1-216-049-00		330 5% 1K 5%	1/10W 1/10W	
C5	1-163-237-11		5%	50V	R20	1-216-065-00		4.7K 5%	1/10W	
CJ	1 103 237 11	CHAMIC CHIL Z/II	3.0	301	R21	1-216-081-00		22K 5%	1/10%	
C6	1-163-237-11	CERAMIC CHIP 27PF	5%	50V	R22	1-216-073-00		10K 5%	1/10W	
C7	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25 V						
C8		CERAMIC CHIP 0.1MF	10%	25 V	******	**********	********	******	*****	******
C9	1-163-125-00		5% 5%	50V		43 1644 054 3	174 DOLDD 00	MAT EME		
C10	1-163-123-00	CERAMIC CHIP 180PF	5%	50 V		*A-1644-054-A	*********			
C11	1-163-105-00	CERAMIC CHIP 33PF	5%	50V						
C12		CERAMIC CHIP 150PF	5%	50V		4-382-854-11	SCREW (M3X10), P, SW (+)		
C13	1-163-133-00	CERAMIC CHIP 470PF	5%	50 V				•		
C14	1-124-903-11		20%	50V	· ·	< CA	PACITOR >			
C15	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	01501	1 100 100 00	CEDANTO	0.01MF	10%	50V
C16	1-124-907-11	ELECT 10MF	20%	50 V	C1501 C1502	1-102-129-00 1-126-101-11		100MF	20%	16V
C17	1-163-037-11		10%	25 V	C1502	1-108-700-11		0.047MF	10%	200V
C18	1-163-119-00		5%	50V	C1505	1-124-907-11		10MF	20%	50V
C19	1-163-001-11	CERAMIC CHIP 220PF	10%	50 V	C1506	1-108-688-11	MYLAR	0.0047MF	10%	200V
					G4 505	4 400 200 00		0.011/m	1.00.	1 0 0 7 7
	< COI	NNECTOR >			C1507	1-106-367-00		0.01MF 0.001MF	10% 10%	100V 500V
CN1	1_573_200_21	CONNECTOR, BOARD TO BOX	מחו חקב		C1508 C1509	1-162-318-11 1-106-367-00		0.001MF	10%	100V
CN2		PIN, CONNECTOR 5P	TILD TOT		C1510	1-126-355-11		33MF	20%	160V
V -1.2					C1511	1-124-799-11		2.2MF	20%	160V
	< DIC	ODE >		•						
					C1512	1-108-704-11		0.1MF	10%	200V
D1	8-719-914-43	DIODE DAN202K			C1513 C1514	1-162-318-11 1-102-951-00		0.001MF 15PF	10% 5%	500V 50V
	< IC				C1514 C1515	1-102-951-00		22PF	ე% 5%	50V
	10	•			C1516	1-102-963-00		33PF	5%	50V
IC1	8-759-521-22	IC TDA4650/V4								
IC2	8-759-140-53	IC MC14053BC			C1517	1-124-667-11		10MF	20%	50V
		** .			C1518	1-102-074-00		0.001MF	10% 10%	50V 200V
	< CO:	тп >			C1519 C1520	1-108-688-11 1-126-803-11		0.0047MF 47MF	10% 20%	200V 16V
ЬÍ	1-4 08-421-00	INDUCTOR 100UH			C1520	1-124-907-11	ELECT	10MF	20% 20%	50V
L2	1-404-554-11				72041					
L3	1-404-554-11				C1551	1- 124-122-11		100MF	20%	50V
					C1552	1-124-122-11		100MF	20%	50V
	< TR	ANSISTOR >	•		C1553	1-102-824-00		470PF	5%	50V
Q2	9_7 20_120_20	TRANSISTOR 2SC1623-L5L	6		C1554 C1555	1-102-824-00 1-130-483-00		470PF 0.01MF	5% 5%	50V 50V
Q2 Q3		TRANSISTOR 2SC1623-L5L			(1)))	T-T20-#02-00	MITTAL	O. O.LAF	3.0	301
Q4	8-729-120-28				C1556	1-130-483-00	MYLAR	0.01MF	5%	50V
Q5		TRANSISTOR 2SC1623-L5L			C1557	1-102-824-00	CERAMIC	470PF	5%	50V
					C1558	1-102-824-00		470PF	5%	50V
	< RE	SISTOR >			C1559	1-102-824-00		470PF	5%	50V
.701	1_216 206 00	מסתאו מדאקט ה בס.	1/8	ra .	C1560	1-102-824-00	CERAMIC	470PF	5%	50V
JR1 JR2		METAL GLAZE 0 5% METAL GLAZE 0 5%			C1561	1-130-483-00	MYLAR	0.01MF	5%	50V
JR3		METAL GLAZE 0 5%			C1562	1-130-483-00		0.01MF	5%	50V
JR4	1-216-296-00				C1563	1-130-483-00		0.01MF	5%	50V
					1					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>l</u>		REMARK
	< CO1	NNECTOR >		R1524	1-249-418-11	CARBON	1.2K 5%	1/4W	
V2	±4 FC4 F40 44	NNECTOR > PLUG, CONNECTOR 3P		R1525	1-249-421-11	CARBON	2.2K 5%	1/4W	
V2 V22	1-695-300-11	CONNECTOR, BOARD TO BOARD	200	R1526 R1527	1-249-426-11 1-249-414-11	CARBON	5.6K 5%	1/4W	
			20F	K152/	1-249-414-11	CARBON	560 5%	1/4W	
	< DIC	ODE >		R1528	1-249-429-11		10K 5%	1/4W	
D1502	8-719-901-33	DIODE 1SS133		R1529 R1530	1-249-414-11 1-216-451-11		560 5% 120 5%	1/4W 2W	
D1503	8-719-901-33	DIODE 188133		R1531	1-249-423-11		3.3K 5%	2w 1/4W	F
D1504	8-719-901-33	DIODE 1SS133		R1533	1-247-903-00		1M 5%	1/4W	
D1505 D1506	8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133		D1534	1 040 400 44			4	
21300	0 /15 /01-55	DIODE 188133		R1534 R1535	1-249-423-11 1-249-392-11		3.3K 5% 8.2 5%	1/4W 1/4W	
D1507	8-719-982-36	DIODE MTZJ-39B		R1536	1-249-434-11	CARBON	27K 5%	1/4W	
D1508 D1509	8-719-982-36 8-719-901-33	DIODE MTZJ-39B DIODE 1SS133		R1551	1-215-445-00		10K 1%	1/4W	
D1303	0-/19-901-33	DIONE 199133		R1552	1-215-423-00	METAL	1.2K 1%	1/4W	
	< IC	>		R1553	1-249-417-11		1K 5%	1/4W	
IC1551	8-759-145-58	TC 11DC4559C		R1554	1-215-445-00	METAL	10K 1%	1/4W	
IC1552	8-759-912-77	IC LM324N		R1555 R1556	1-215-375-00 1-215-375-00	METAL METAL	12 1% 12 1%	1/4W 1/4W	
				R1557	1-215-375-00		12 1%	1/4W	
	< CO1	IL >		24550	4 045 445 44				
L1502	1-408-418-00	INDUCTOR 56UH		R1558 R1559	1-215-445-00 1-215-445-00	METAL METAL	10K 1% 10K 1%	1/4W	
				R1560	1-215-445-00		10K 1%	1/4W 1/4W	
	< TRA	INSISTOR >		R1561	1-215-423-00	METAL	1.2K 1%	1/4W	
Q1501	8-729-017-05	TRANSISTOR 2SA1837		R1562	1-215-423-00	METAL	1.2K 1%	1/4W	
Q1502	8-729-017-06	TRANSISTOR 2SC4793		R1563	1-215-445-00	METAL	10K 1%	1/4W	
Q1503	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1564	1-249-417-11	CARBON	1K 5%	1/4W	
Q1504 Q1505	8-729-119-78 8-729-119-76	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE		R1565			10K 1%	1/4W	
22005	0 /25 215 /0	INMIDION ZBAIL/J-NFE		R1566 R1567	1-215-375-00 1-215-375-00	METAL METAL	12 1% 12 1%	1/4W 1/4W	
Q1506	8-729-119-78	TRANSISTOR 2SC2785-HFE					I-0	2/ 20	
Q1507 Q1508	8-729-119-78 8-729-142-86	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC3733		R1568	1-215-375-00	METAL	12 1%	1/4W	
Q1551	8-729-231-60	TRANSISTOR 2SD1406-YGR		R1569 R1570	1-215-445-00 1-215-445-00	METAL METAL	10K 1% 10K 1%	1/4W 1/4W	
Q1552	8-729-141-83	TRANSISTOR 2SB1094-LK		R1571	1-249-417-11		1K 5%	1/4W	
01552	0 700 001 60	MD11/GTGMOD OGD1406 HGD		R1572	1-215-445-00	METAL	10K 1%	1/4W	
Q1553 Q1554	8-729-231-60 8-729-141-83	TRANSISTOR 2SD1406-YGR TRANSISTOR 2SB1094-LK		R1573	1-215-375-00	METAL	12 1%	1 / 414	
Q1555	8-729-231-60	TRANSISTOR 2SD1406-YGR		R1574	1-215-375-00		12 1%	1/4W 1/4W	
Q1556	8-729-141-83	TRANSISTOR 2SB1094-LK		R1575	1-215-375-00	METAL	12 1%	1/4W	
	< RES	ISTOR >		R1576 R1577	1-215-445-00 1-215-445-00	METAL METAL	10K 1%	1/4W	
				LISTA	1-213-445-00	METAL	10K 1%	1/4W	
R1501 R1502	1-249-451-11		1/4W F	R1578	1-249-417-11	CARBON	1K 5%	1/4W	
R1502 R1503	1-249-414-11 1-247-734-11		1/4W F 1/2W F	R1579 R1580	1-249-417-11 1-249-417-11	CARBON	1K 5%	1/4W	
R1504	1-249-384-11		1/4W F	R1581	1-249-432-11	CARBON	1K 5% 18K 5%	1/4W 1/4W	
R1505	1-247-807-31		L/4W	R1582	1-249-432-11	CARBON	18K 5%	1/4W	
R1506	1-249-419-11	CARBON 1.5K 5% 1	L/4W	******	******	*****			
R1507	1-249-412-11	CARBON 390 5%	L/4W						
R1508	1-249-436-11		L/4W		*A-1678-079-A	N BOARD, COMPI			
R1509 R1510	1-249-421-11 1-249-436-11		l/4W L/4W			*********	***		
MIJIV	1 217 150 11	CAMBON 33K 3%	r/#M		4-030-359-11	HEAT SINK, H.	DTN		
R1511	1-249-418-11		L/4W		*4-363-146-00	HEAT SINK, V.	OUT		
R1512 R1513	1-249-441-11 1-249-432-11		L/4W L/4W						
R1514	1-247-807-31	CARBON 100 5% 1	L/4W L/4W		< CAP	ACITOR >			
R1515	1-249-435-11		L/4W	.C801	1-123-024-21	ELECT 3	3MF		160V
R1517	1-249-417-11	CADDON 15 CO. 4	I/Am 7	C803	1-136-541-11	FILM 1	.5MF	5%	200V
R1517			L/4W F BW F	C804 C805	1-108-700-11 1-102-030-00		0.047MF 330PF	10%	200V
R1520	1-249-432-11	CARBON 18K 5% 1	L/4W	C805	1-136-165-00		30PF).1MF	10% 5%	500V 50V
R1521	1-249-414-11		L/4W						
R1522	1-249-384-11	CARBON 1.8 5% 1	L/4W F	C808 C809	1-126-541-11 1-124-903-11		30MF	20%	25V
R1523	1-249-400-11	CARBON 39 5% 1	L/4W F	C811	1-124-903-11		MF .47MF	20% 20%	50V 50V
			-	1 2				~0.0	501

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REF.NO.	PART NO.	DESCRIPTI	ON		REMARK	REF.NO.	PART NO.	DESCRIPTIO	Ŋ.		REMARK
C812 C813	1-102-973-00 1-102-244-00	CERAMIC CERAMIC	100PF 220PF	5% 10%	50V 500V		< CON	NECTOR >			
C814 C817 C818 C819 C820	1-110-364-11 1-126-541-11 1-102-824-00 1-124-907-11 1-124-907-11	ELECT CERAMIC ELECT	0.1MF 330MF 470PF 10MF	10% 20% 5% 20% 20%	200V 25V 50V 50V 50V	N2 N4 N5 N6 N7		PIN, CONNECTO	R 4P R 5P R (5MM P:		
C821 C822 C823 C831 C832	1-124-907-11 1-104-792-51 1-124-907-11 1-106-220-00 1-124-907-11	ELECT ELECT MYLAR	10MF 33MF 10MF 0.1MF	20% 20% 20% 10% 20%	50V 16V 50V 100V 50V	N10 N30 N851 N853	*1-506-371-00 *1-506-371-00	PIN, CONNECTO PIN, CONNECTO	R (5MM P: R 2P	ITCH) 1P	
C833	1-124-916-11		22MF	20%	50V	NL801	1-519-237-14				
C834 C835 C836	1-102-121-00 1-124-927-11 1-164-091-11	ELECT	0.0022MF 4.7MF 0.0022MF	10% 20% 10%	50V 50V 50V		< TRA	NSISTOR >			
C837 C838 C839	1-136-169-00 1-164-091-11 1-102-106-00	FILM CERAMIC	0.22MF 0.0022MF 100PF	5% 10% 10%	50V 50V 50V	Q801	8-729-201-62 4-382-854-11 4-383-023-01	SCREW (M3X10)	, P, SW	(+) ; Q80)1
C840 C842 C843	1-136-807-11 1-130-471-00 1-136-173-00	FILM MYLAR	0.018MF 0.001MF 0.47MF	3% 5% 5%	1.6KV 50V 50V	Q802 Q803	8-729-119-80 4-373-933-01 4-382-854-11 8-729-119-76		STOR), BI	N ; Q802 (+) ; Q8)2
C844 C850 C851 C852 C853	1-110-364-11 1-136-169-00 1-124-907-11 1-124-907-11 1-106-220-00	FILM ELECT ELECT	0.1MF 0.22MF 10MF 10MF 0.1MF	10% 5% 20% 20%	200V 50V 50V 50V 100V	Q804 Q806 Q811	8-729-119-78 8-729-119-80 8-729-805-07	TRANSISTOR 2S	C2688-LK D1887-CA		14
C854 C855 C856	1-126-329-11 1-126-804-11 1-162-114-00	ELECT ELECT	470MF 100MF 0.0047MF	20% 20%	50V 50V 2KV	Q812 Q851 Q852	4-382-854-11 8-729-804-48 8-729-119-78 8-729-119-78	TRANSISTOR 2S	C3675 C2785-HF	3	11
C888	1-124-903-11	ELECT	1MF	20%	50V	Q853		TRANSISTOR 2S			
-004	< DIC		•••					SISTOR >			
D801 D802 D805 D806 D807	8-719-928-08 8-719-302-43 8-719-901-33 8-719-109-85 8-719-109-85	DIODE 1SS133 DIODE RD5.1E	SSB2			R800 R801 R803 R804 R805	1-249-401-11 1-216-378-11 1-215-869-11 1-249-429-11 1-249-423-11	METAL OXIDE METAL OXIDE CARBON	47 55 5.6 55 1K 55 10K 55 3.3K 55	% 2W % 1W % 1/4	F F
D808 D810 D814 D815 D817	8-719-901-33 8-719-901-33 8-719-901-33 8-719-921-88 8-719-945-80	DIODE 1SS133 DIODE 1SS133 DIODE MTZJ-1	3 3 13B			R806 R807 R808 R809 R811	1-249-425-11 1-249-441-11 1-249-419-11 1-249-417-11 1-249-421-11	CARBON CARBON CARBON	4.7K 55 100K 55 1.5K 55 1K 55 2.2K 55	\$ 1/41 \$ 1/41 \$ 1/41	4 4 • •
D818 D850 D851 D852 D853	8-719-901-33 8-719-982-07 8-719-903-09 8-719-901-33 8-719-903-09	DIODE MTZJ-3 DIODE V30N DIODE 1SS133	3.9A			R812 R813 R814 R815 R824	1-249-420-11 1-215-921-11 1-249-409-11 1-249-416-11 1-215-469-00	METAL OXIDE CARBON CARBON	1.8K 55 4.7K 55 220 55 820 55 100K 15	% 3W % 1/4 % 1/4	N F
	< IC	>				R825 R826	1-215-453-00 1-214-962-00		22K 19		
IC803 IC804 IC805	8-759-503-91 8-759-103-93 8-759-100-75	IC UPC393C				R827 R828 R829	1-214-764-00 1-215-455-00 1-215-455-00	METAL METAL	30K 1' 27K 1' 27K 1'	% 1/4° % 1/4°	4 4
	< CO1	[L >				R830 R831	1-215-928-11 1-215-928-11		68K 5		F F
L802 L803 L804 L805	1-409-570-11 1-459-313-00 1-408-421-00 1-424-603-11	COIL WITH CO	ORE (HWC) 100UH			R832 R833 R834	1-249-417-11 1-249-419-11 1-249-419-11	CARBON CARBON	1K 5' 1.5K 5' 1.5K 5'	% 1/4° % 1/4°	9

R835 R836 1-215-429-00 METAL 1-215-435-00 METAL 2.2K 1% 3.9K 1% 1/4W 1/4W N ZR ZG ZB

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTIO	N			REMARK	REF.NO.	PART NO.	DESCRIPTION	ON			REMARK
R837	1-247-863-91		22K	5%	1/4W		•	< TRA	NSFORMER >				
R838 R839	1-249-435-11 1-249-438-11	CARBON CARBON	33K 56K	5% 5%	1/4W 1/4W		T801	1-437-078-00	TRANSFORMER,	HORIZO	NTAL	DRIVE	
R840	1-249-434-11	CARBON	27K	5%	1/4W		T802 T803	1-437-090-00 1-453-121-11	HDT TRANSFORMER	ASSY. F	ኒያያልቦ	K (NX-2	630B4
R841	1-249-429-11		10K	5%	1/4W		98- 5-7	***					
R842 R847	1-249-435-11 1-214-761-00		33K 22K	5% 1%	1/4W 1/4W		*****	*******	******	******	****	*****	*****
R848	1-215-429-00	METAL	2.2K	1%	1/4W			*1-653-061-11					
R849	1-215-421-00	METAL	1K	1%	1/4W				******				
R850 R851	1-215-429-00 1-215-404-00	METAL METAL	2.2K 200	1% 1%	1/4W 1/4W			< CAP	ACITOR >				
R858	1-249-417-11		1K	5%	1/4W		C1901	1-162-115-00	CERAMIC	330PF		10%	2KV
R859	1-249-435-11	CARBON	33K	5%	1/4W		C1902	1-162-115-00		330PF		10%	2KV
R860	1-249-441-11		100K	5%	1/4W			< RES	SISTOR >				
R861 R862	1-249-421-11 1-249-434-11	CARBON CARBON	2.2K 27K	5% 5%	1/4W 1/4W		R1901	1-202-822-00	aor en	0 07	2.00.	1 /000	
R863	1-249-431-11		15K	5% 5%	1/4W		R1901	1-202-822-00	SOLID SOLID	2.2K 2.2K	20% 20%	1/2W 1/2W	
R864	1-249-428-11	CARBON	8.2K	5%	1/4W		R1903	1-249-414-11	CARBON	560	5%	1/4W	
R865	1-249-440-11	CARBON	82K	5%	1/4W		R1904 R1905	1-249-414-11 1-215-888-00		560	5% 5%	1/4W	70
R866	1-249-436-11		39K	5%	1/4W		KIJUJ	1-213-000-00	METAL OXIDE	220	3%	2W	F
R867	1-249-437-11		47K	5%	1/4W			< CONN	ECTOR >				
R868 R871	1-249-428-11 1-249-440-11		8.2K 82K	5% 5%	1/4W 1/4W		ZR1	*1-564-522-11	DIJIG COMMEC	מד פחיחי			
							ZR2	*1-564-518-11					
R872 R873	1-249-423-11 1-249-441-11		3.3K 100K	5% 5%	1/4W		ZR18	*1-691-292-11	PIN, CONNECT	OR (PC	BOARD) 3P	
R874	1-249-435-11		33K	5% 5%	1/4W 1/4W		******	******	*******	*****	****	******	*****
R875	1-249-421-11	CARBON	2.2K	5%	1/4W								
R876	1-215-426-00	METAL	1.6K	1%	1/4W			*1-653-062-11	ZG BOARD				
R877 R878	1-249-434-11		27K	5%	1/4W			< CAP	ACITOR >				
R880	1-249-441-11 1-249-429-11	CARBON CARBON	100K 10K	5% 5%	1/4W 1/4W		C1911	1-162-115-00	CERAMIC	330PF		10%	2KV
R881	1-214-761-00	METAL	22K	1%	1/4W		C1912	1-162-115-00		330PF		10%	2KV
R884	1-215-894-11	METAL OXIDE	2.2K	5%	2W	F		< RES	ISTOR >				
R885	1-249-438-11		56K	5%	1/4W	}	-4444						
R886 R887	1-249-417-11 1-215-397-00	CARBON METAL	1K 100	5% 1%	1/4W 1/4W		R1911 R1912	1-202-822-00 1-202-822-00	SOLID SOLID	2.2K 2.2K	20% 20%	1/2W 1/2W	
R888	1-249-410-11	CARBON	270	5%	1/4W		R1913	1-249-414-11		560	20 ຈ 5%	1/4W	
R889	1-249-417-11	CARBON	1K	5%	1/4W		R1914	1-249-414-11	CARBON	560	5%	1/4W	_
R890	1-249-431-11	CARBON	15K	5%	1/4W		R1915	1-215-888-00	METAL OXIDE	220	5%	2₩	F
R892	1-249-417-11	CARBON	1K	5%	1/4W	F		< CON	NECTOR >				
R893 R894	1-215-453-00 1-249-401-11		22K 47	1% 5%	1/4W 1/4W		ZG2	1-564-523-11	סייות הטאות	פום פ∩יייו			
R895	1-202-731-00		10M	20%	1/2W		ZG19	*1-691-292-11			BOARD) 3P	
R896	1-260-111-11		10K	5%	1/2W	,	******	******	******	*****	****	******	*****
R897 R898	1-247-881-00 1-202-730-00		120K 8.2M		1/4W 1/2W			*1_6E2 062 11	מתגחת מה				
R899	1-249-429-11	CARBON	8.2M 10K	10% 5%	1/4W			*1-653-063-11	ZB BOARD				
R903	1-247-735-11		47	5%	1/2W			. (13.11)	ACTMOD -				
R904	1-215-928-11		68K	5%	3W	F			ACITOR >				
R910	1-249-425-11	CARBON	4.7K	5%	1/4W		C1921 C1922	1-162-115-00 1-162-115-00	-	330PF 330PF		10% 10%	2KV 2KV
	< VAR	RIABLE RESISTOR	R >						ISTOR >				-
RV901	1-241-765-11	RES, ADJ, CAR	RBON 22	K									
RV902	1-241-765-11	RES, ADJ, CAF	RBON 22	K			R1921 R1922	1-202-822-00 1-202-822-00		2.2K		1/2W	
	< SPA	ARK GAP >					R1922 R1923	1-202-822-00		2.2K 560	20% 5%	1/2W 1/ 4W	
SG801	1-519-422-11	GAP, SPARK					R1924	1-249-414-11		560		1/4W	
- 3***		, we shall						< CON	NECTOR >				
						en pylmynyn y ch	ZB3	1-564-524-11	PLUG, CONNEC	TOR 9P			
						1							

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.

V901 V902 V903 ZB

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
ZB20	*1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P			•		

MISCELLANEOUS

Å.	1-241-744-11 1-452-032-00	RESISTOR ASSY, HIGH-VOLTAGE MAGNET, DISK; 10MM Ø
	1-452-094-00 1-453-108-11 1-453-121-11	MAGNET, ROTATABLE DISK; 15MM Ø DC BLOCK, HIGH-VOLTAGE TRANSFORMER ASSY, FLYBACK (NX-2630B4)
A	1-693-185-11 1-765-286-11	SPEAKER (12CM) LEAD ASSY, HIGH-VOLTAGE TUNER (UV916H) CORD, POWER
!	8-451-441-11	DEFLECTION YOKE (Y829PA (R,G))
Â.	8-451-441-21 8-736-074-05	DEFLECTION YOKE (Y829PAN2 (B)) PICTURE TUBE (SD-279)(07MAB2(R))
1		PICTURE TUBE (SD-279) (07MAB2(G))

ACCESSORIES AND PACKING MATERIALS

4-030-895-01 4-037-938-01 4-037-939-01 4-037-940-01 4-037-941-01	JOINT INDIVIDUAL CARTON TRAY PLATE, TOP PLATE, BOTTOM
4-037-942-01	CUSHION (UPPER) (ASSY)
4 -037-943-01	CUSHION (LOWER) (ASSY)
4-202-762-11	MANUAL, INSTRUCTION
	(ENGLISH/SPANISH/PORTUGUESE/SWEDISH)
4-388-954-01	BAG, PROTECTION

REMOTE COMMANDER

1-467-264-11 REMOTE COMMANDER (RM-842) 9-903-466-11 POCKET COVER (FOR RM-842)
